

FIG. 1

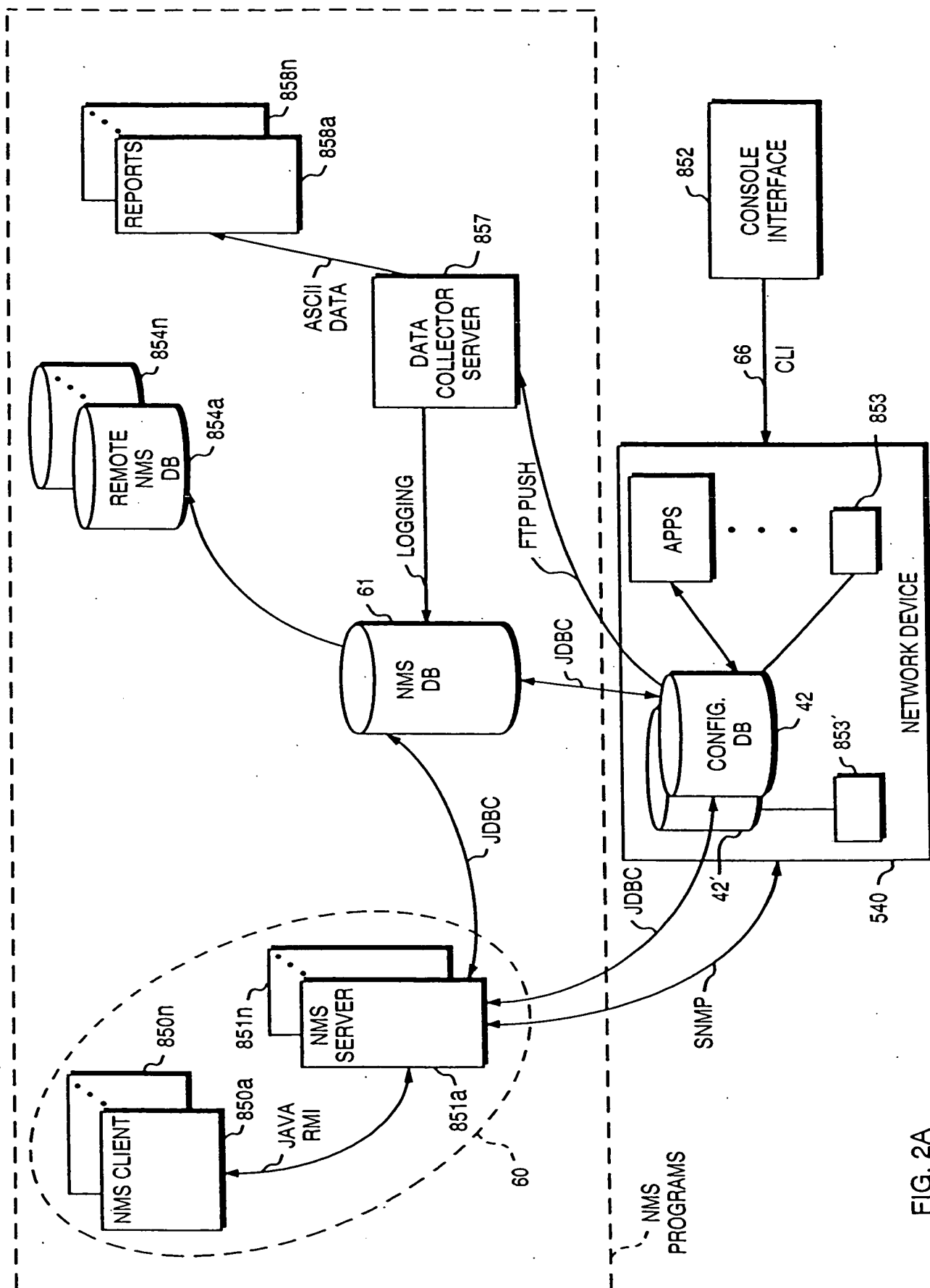


FIG. 2A

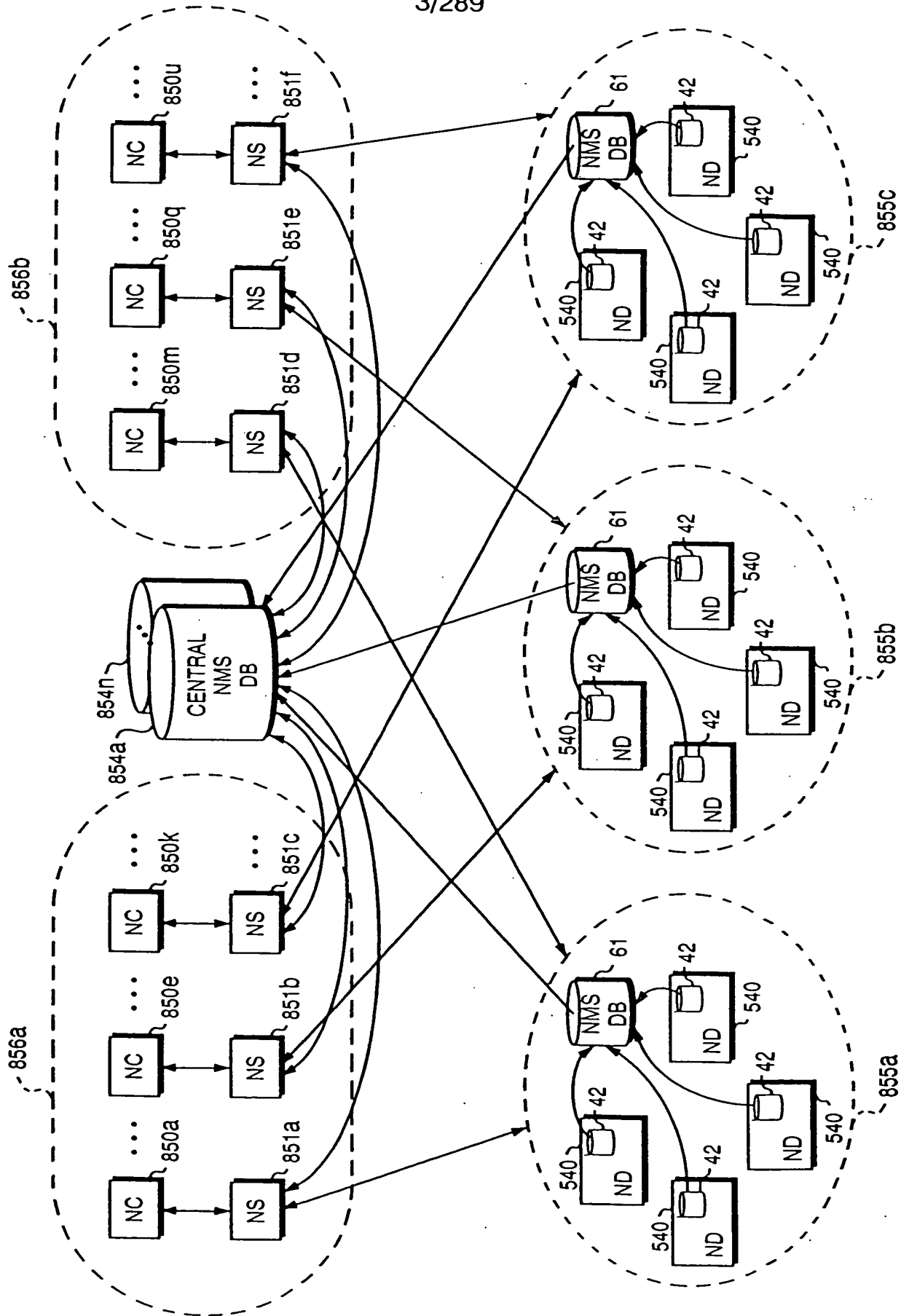


FIG. 2B

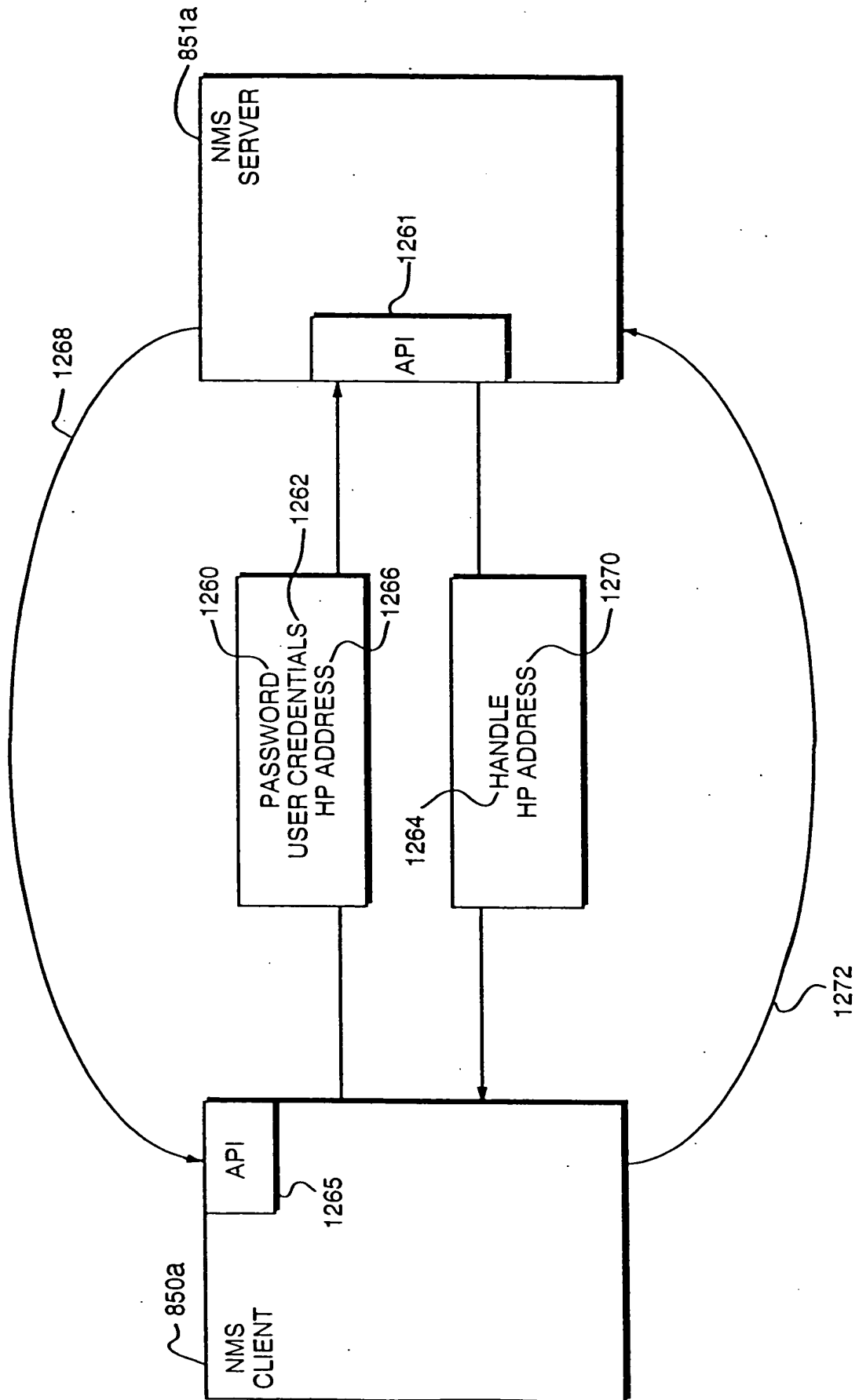


FIG. 2C

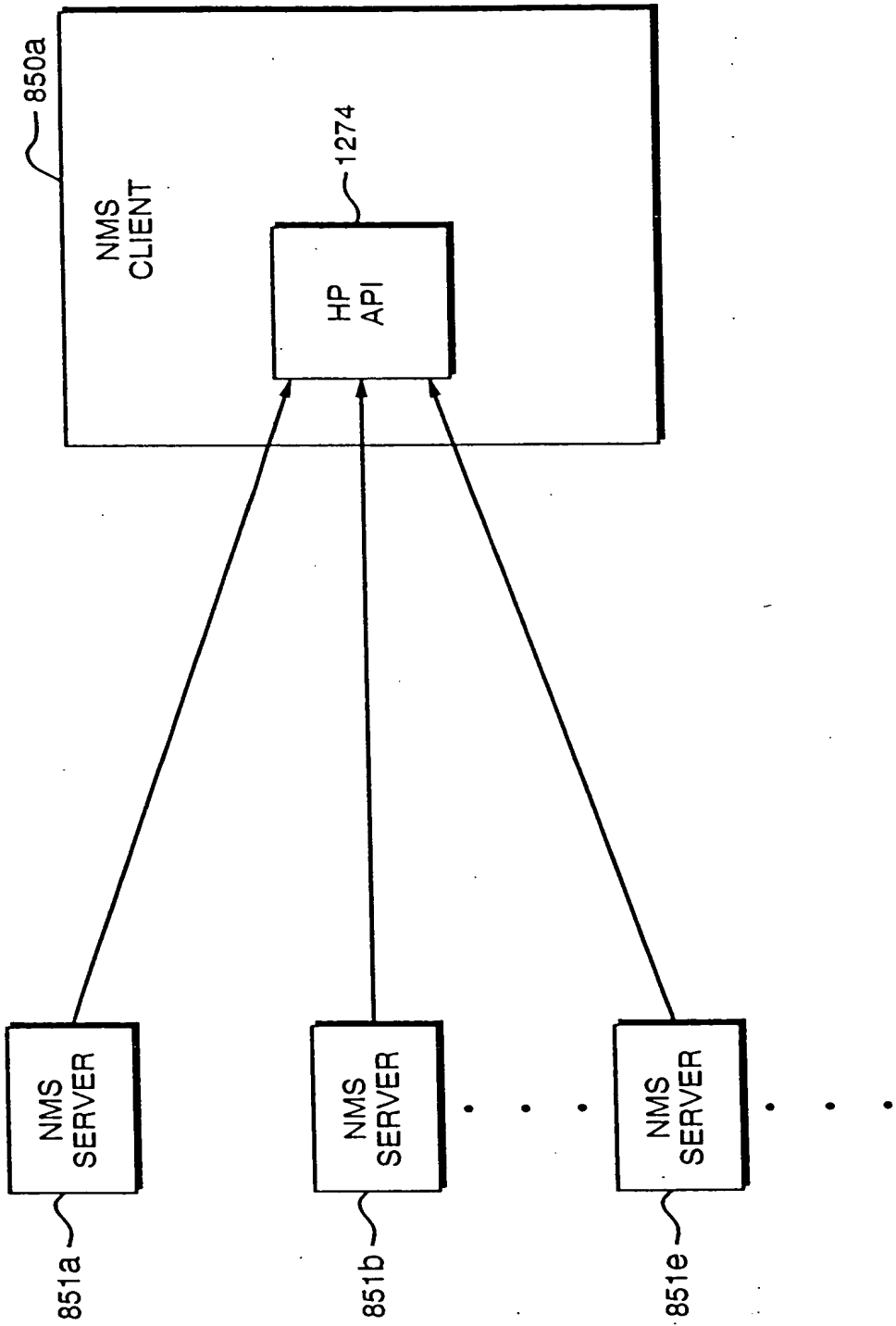


FIG. 2D



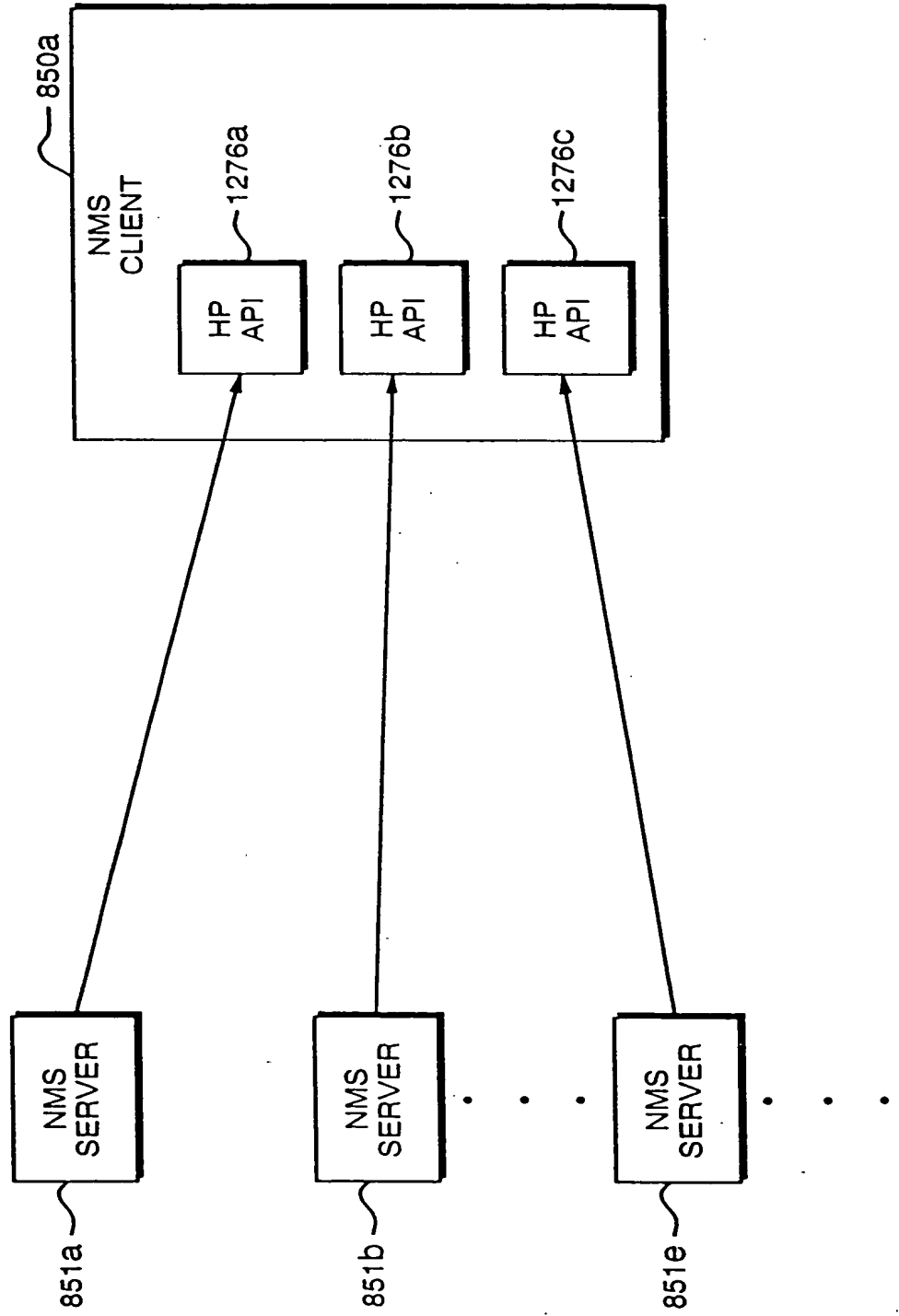


FIG. 2E



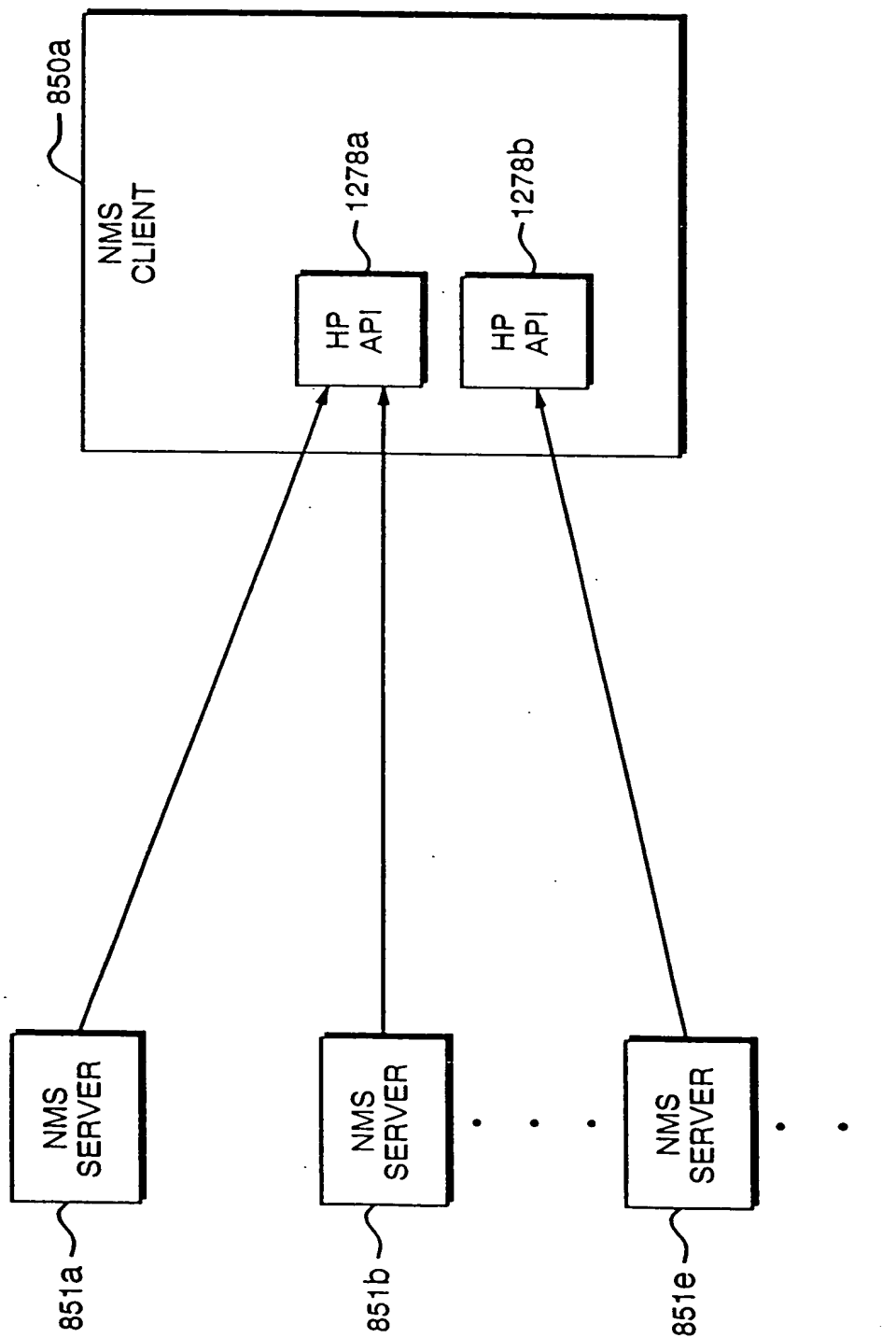


FIG. 2F



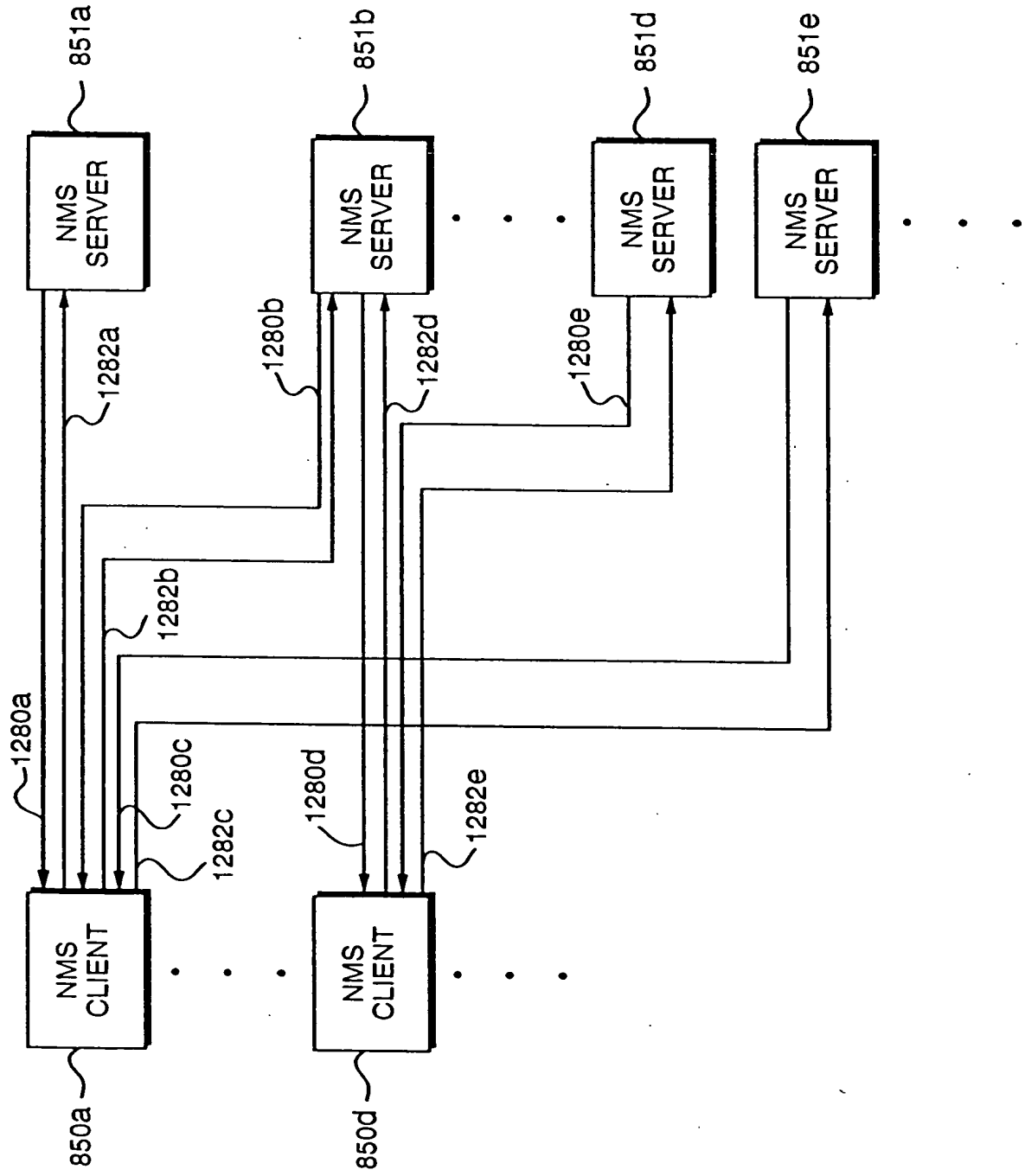


FIG. 2G

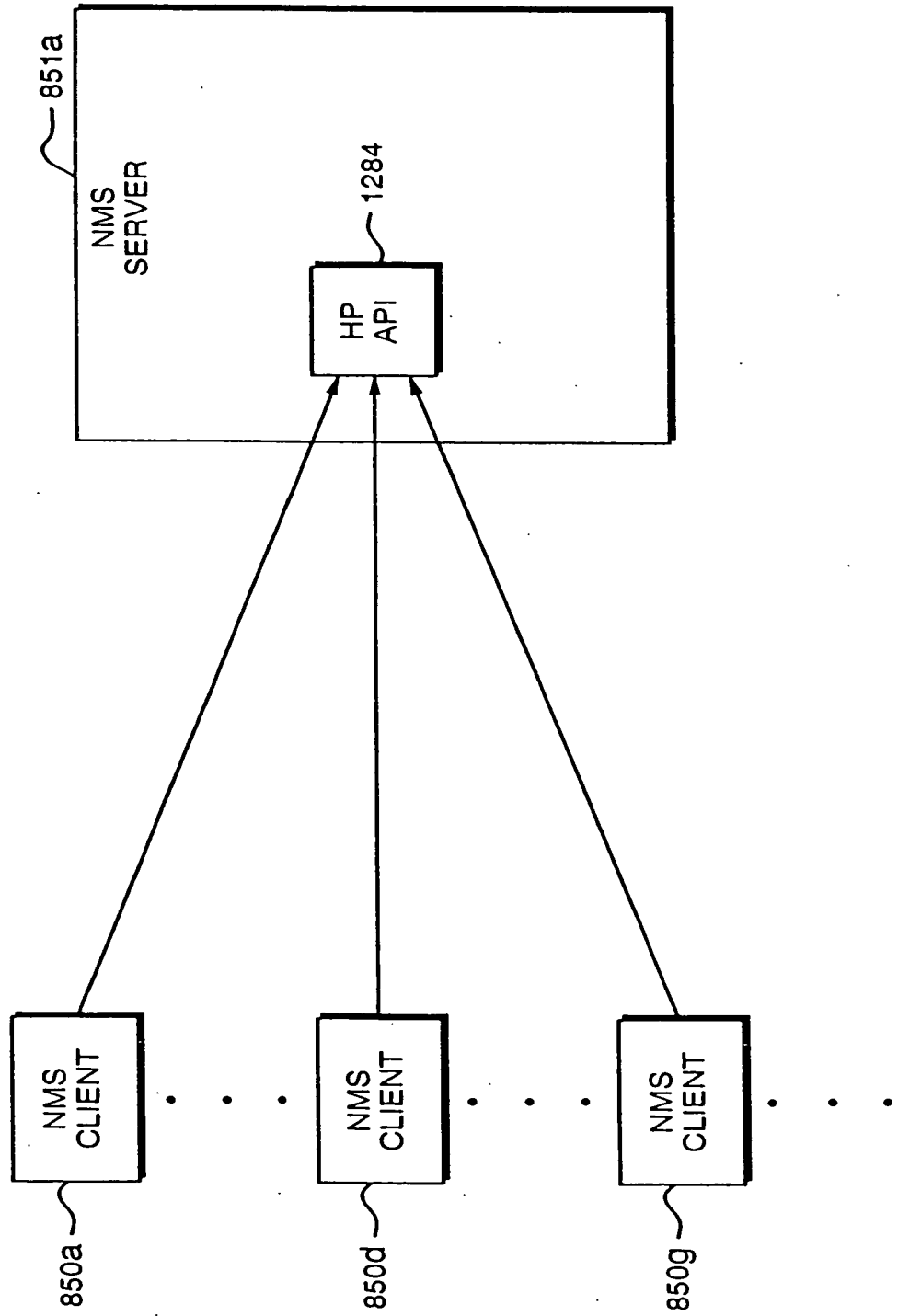


FIG. 2H



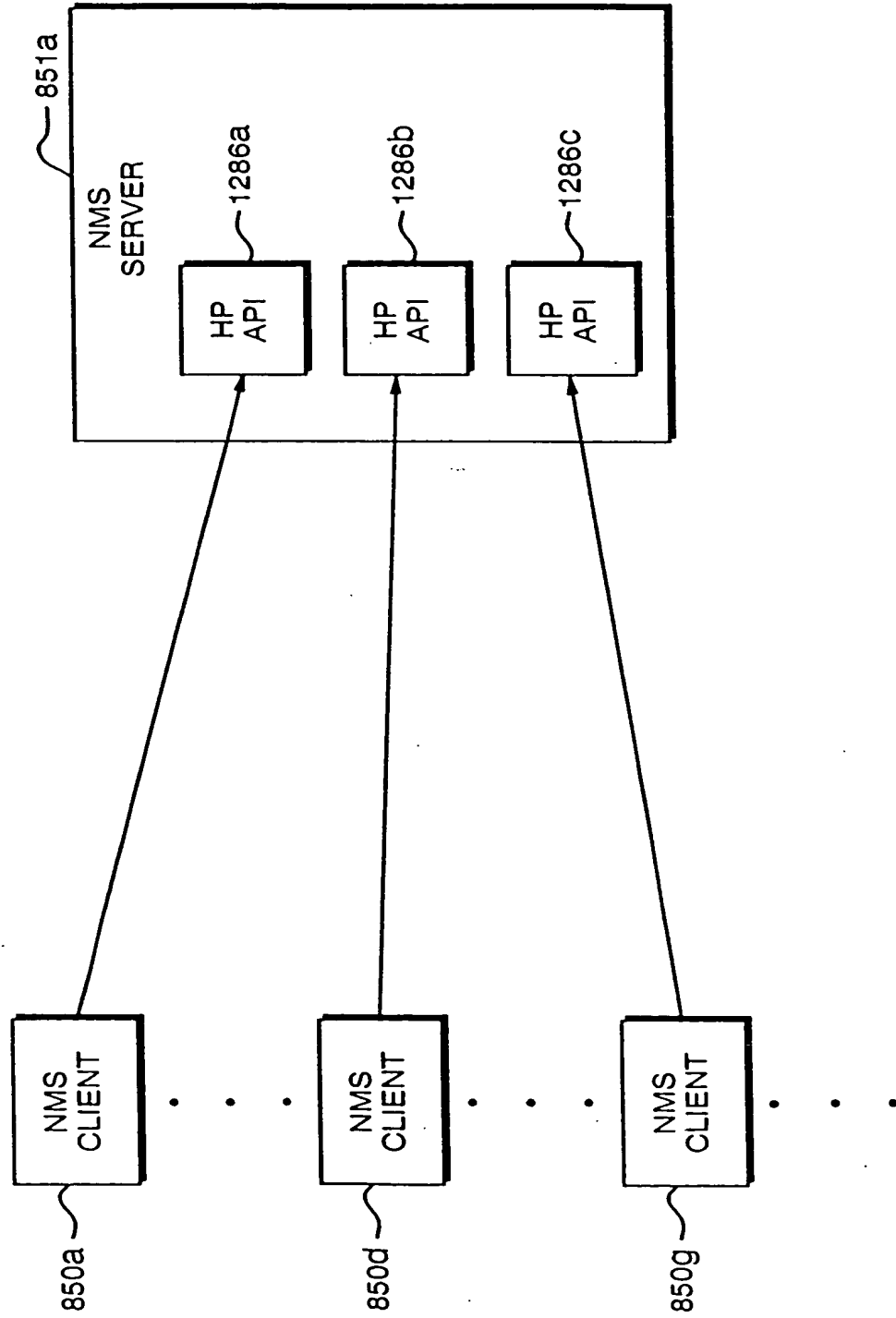


FIG. 2I

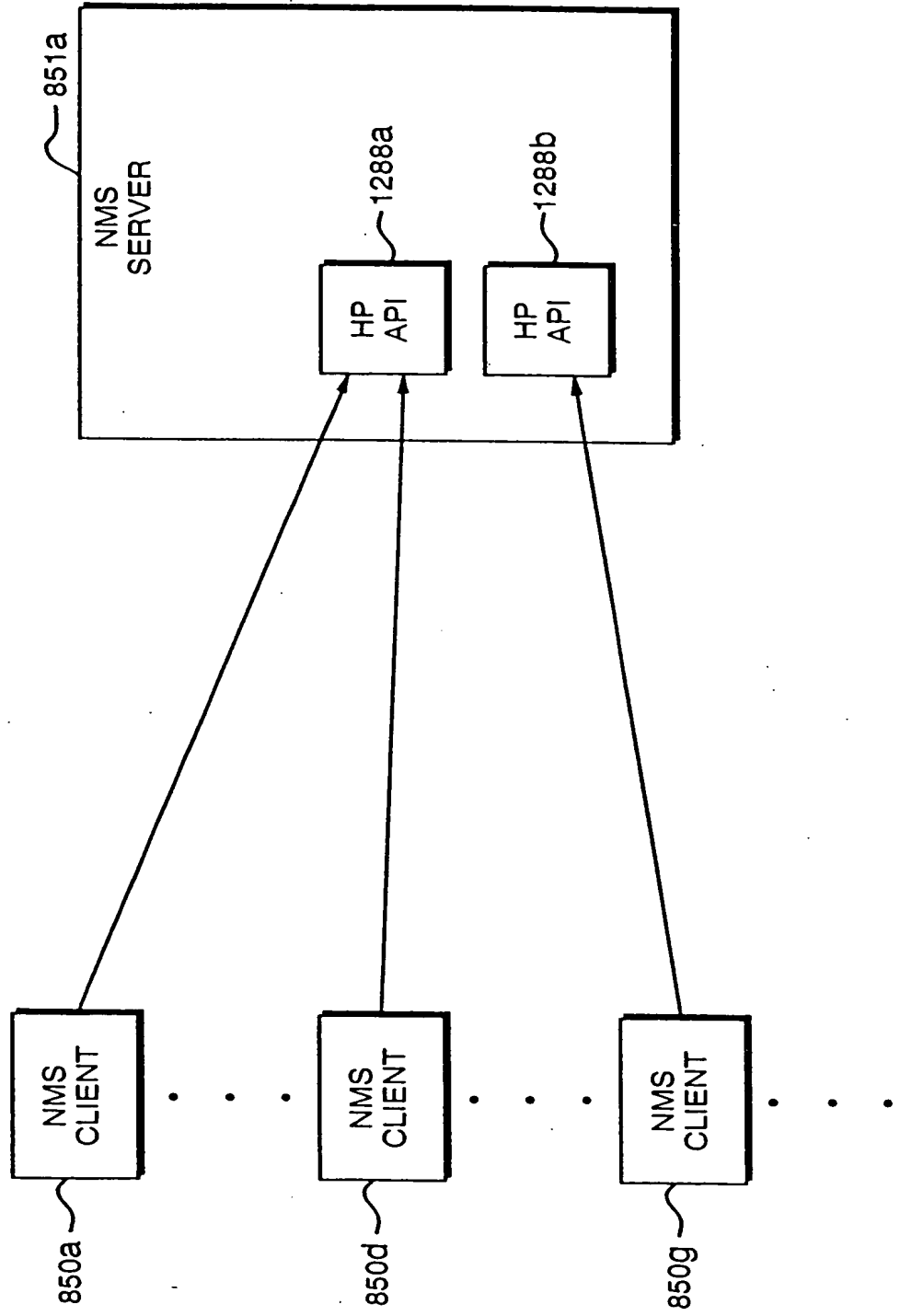


FIG. 2J



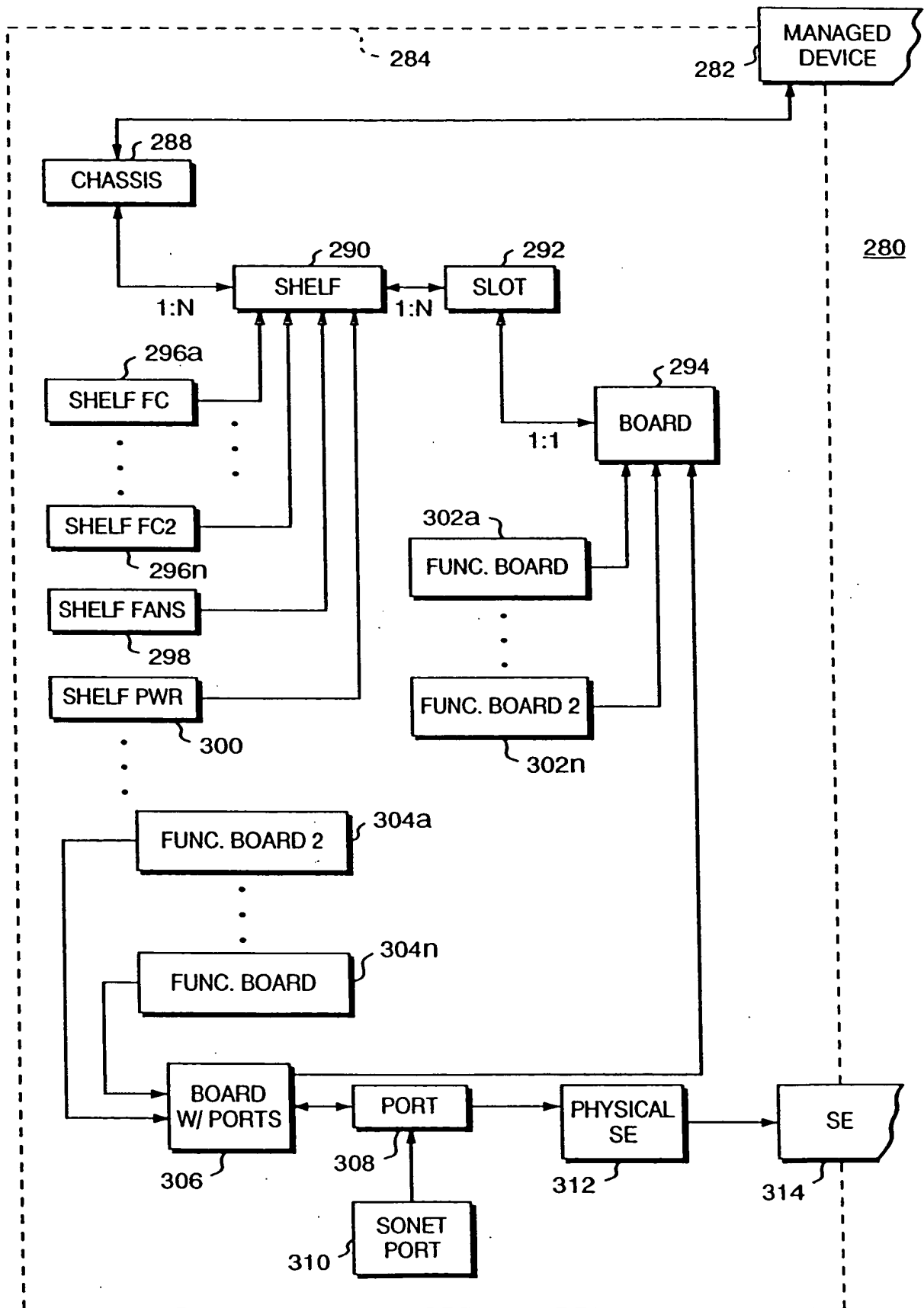


FIG. 2A



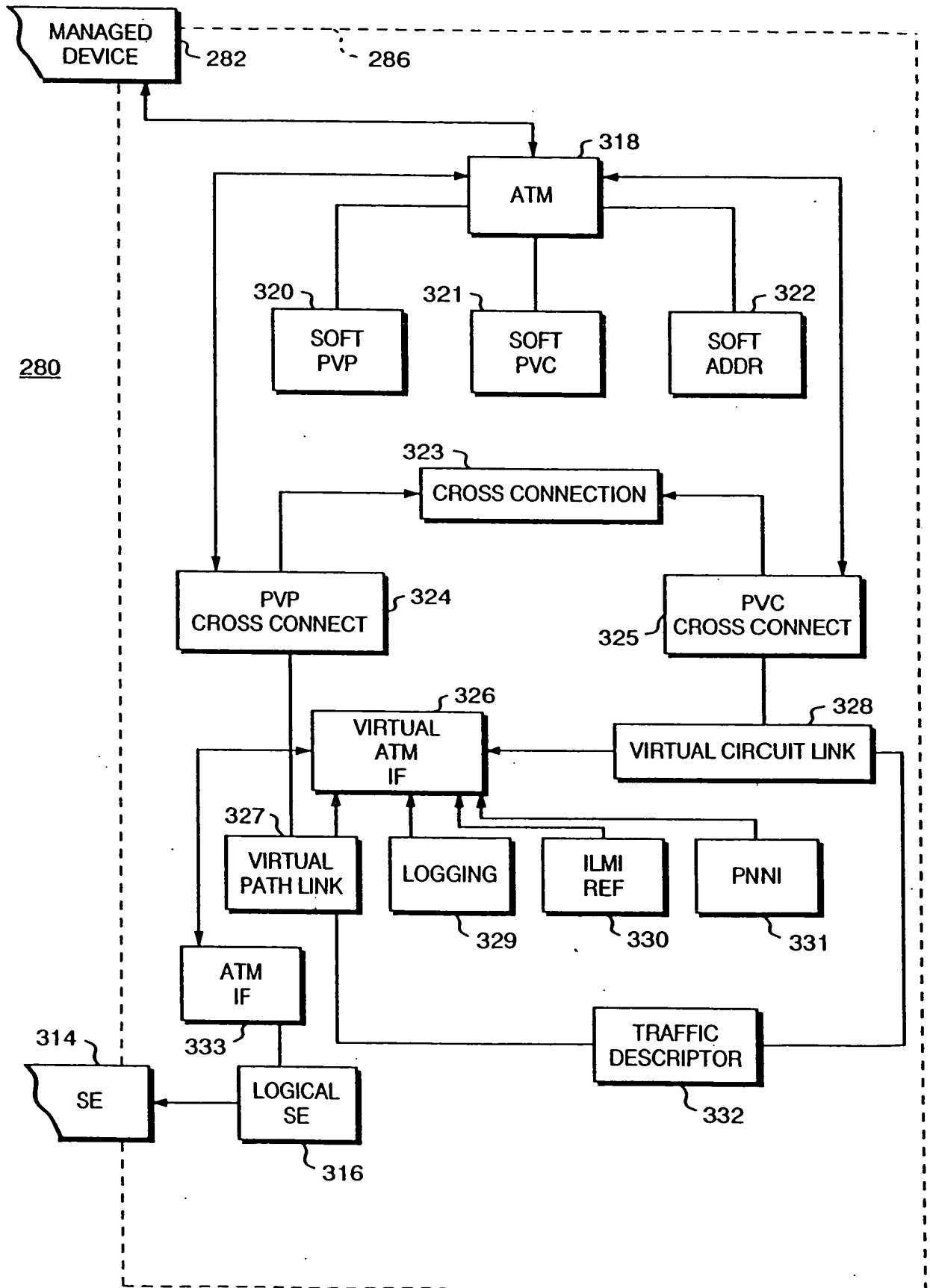


FIG. 3B



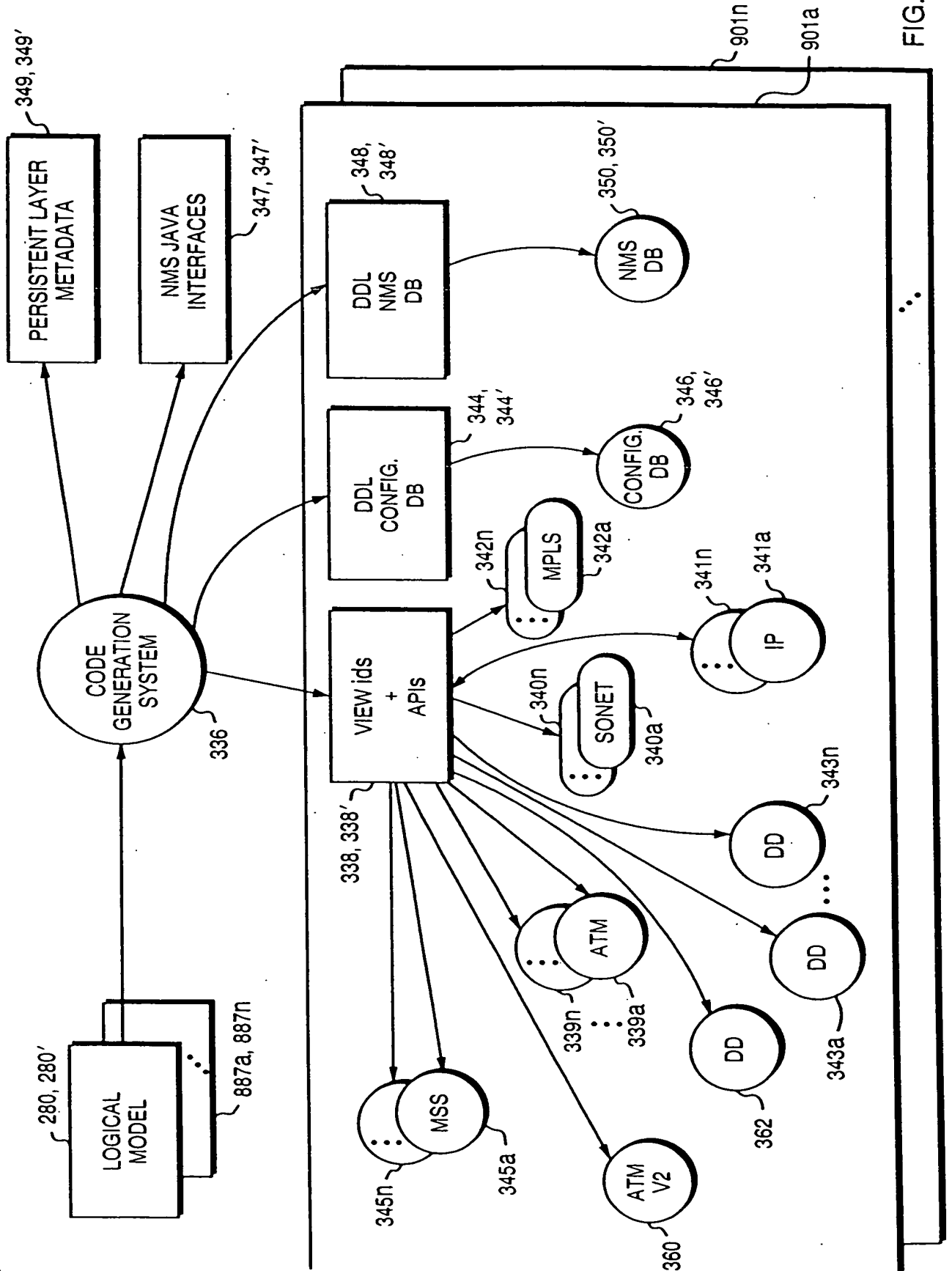


FIG. 3C

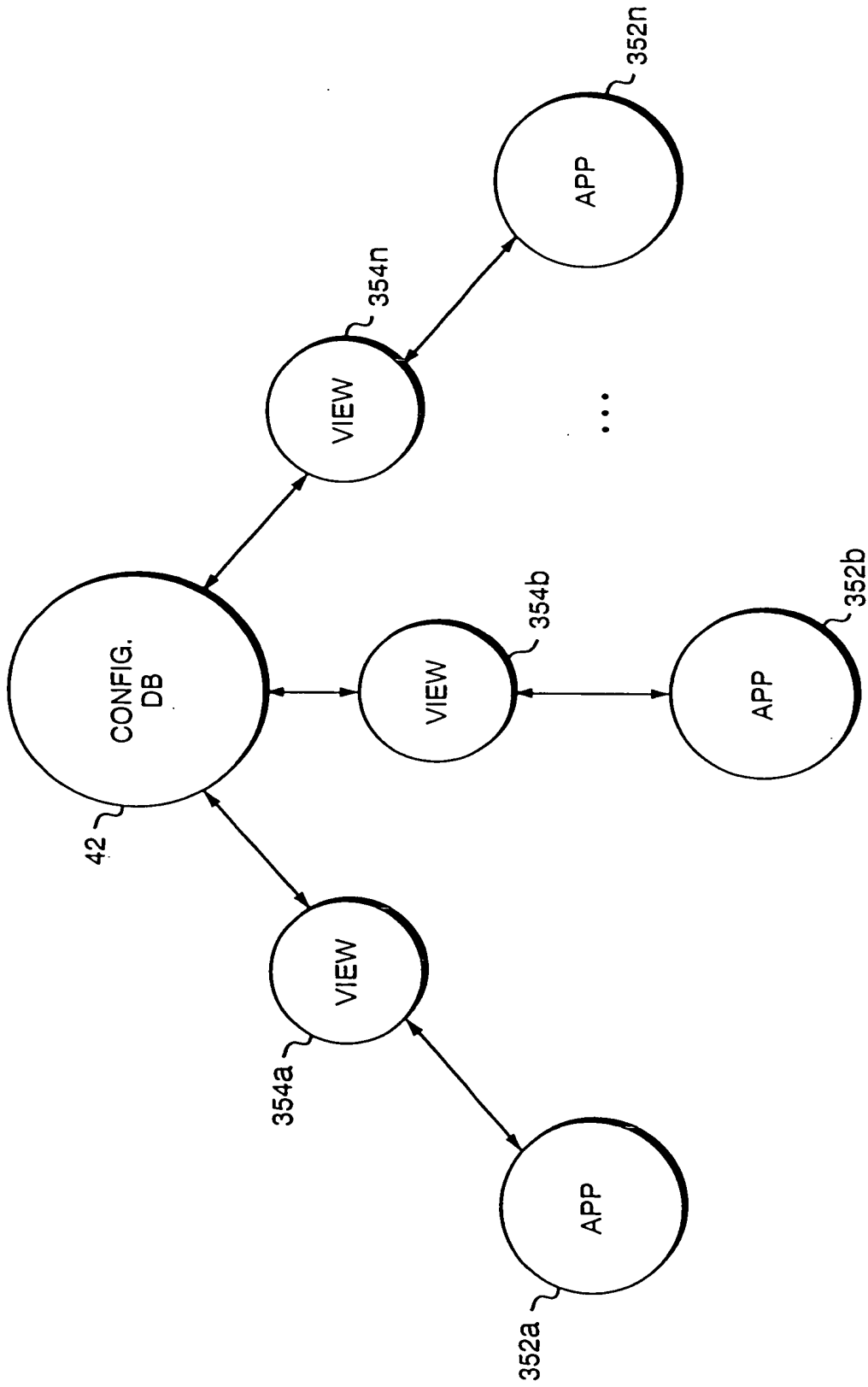
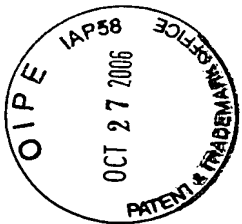


FIG. 3D



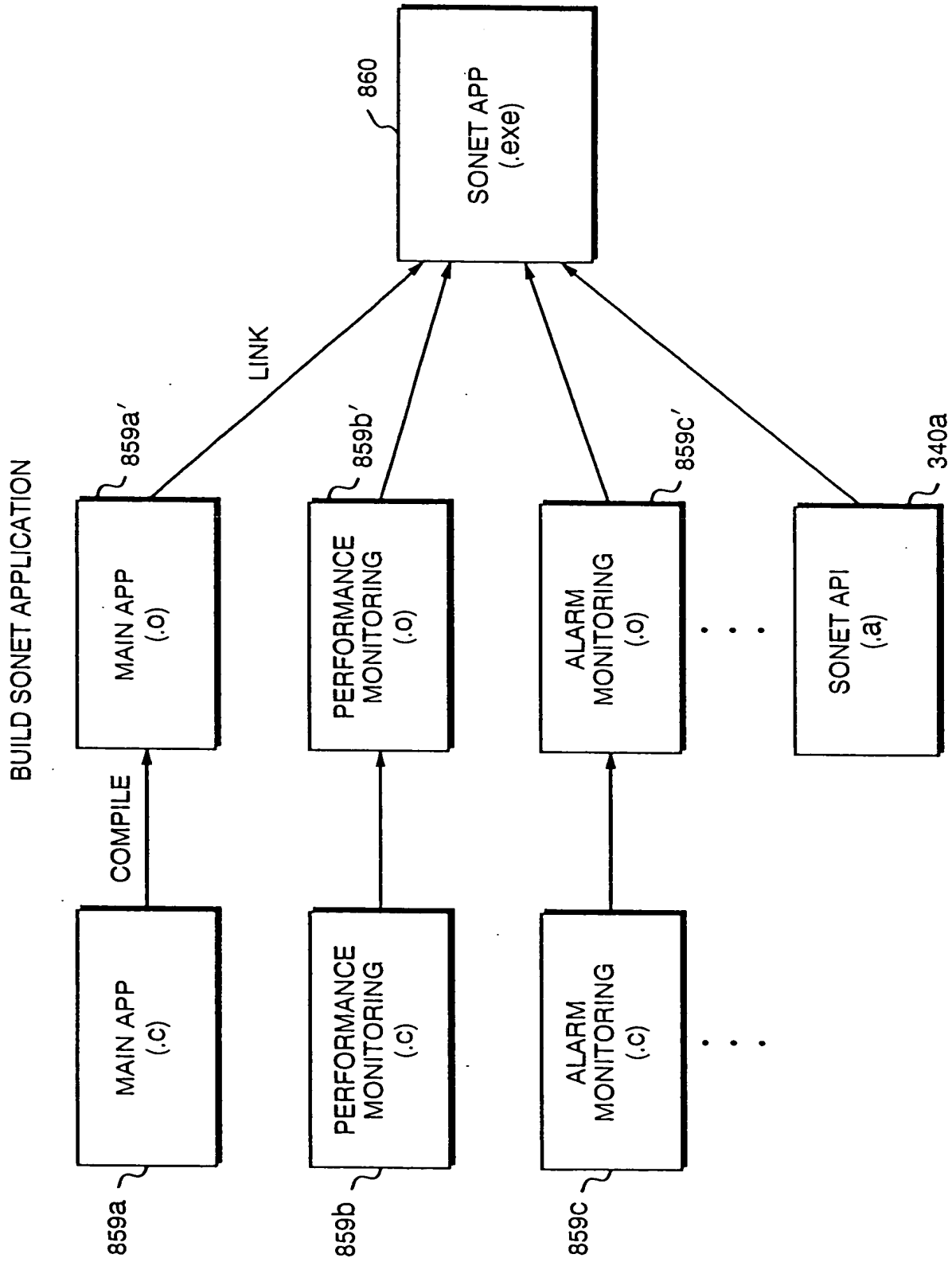


FIG. 3E

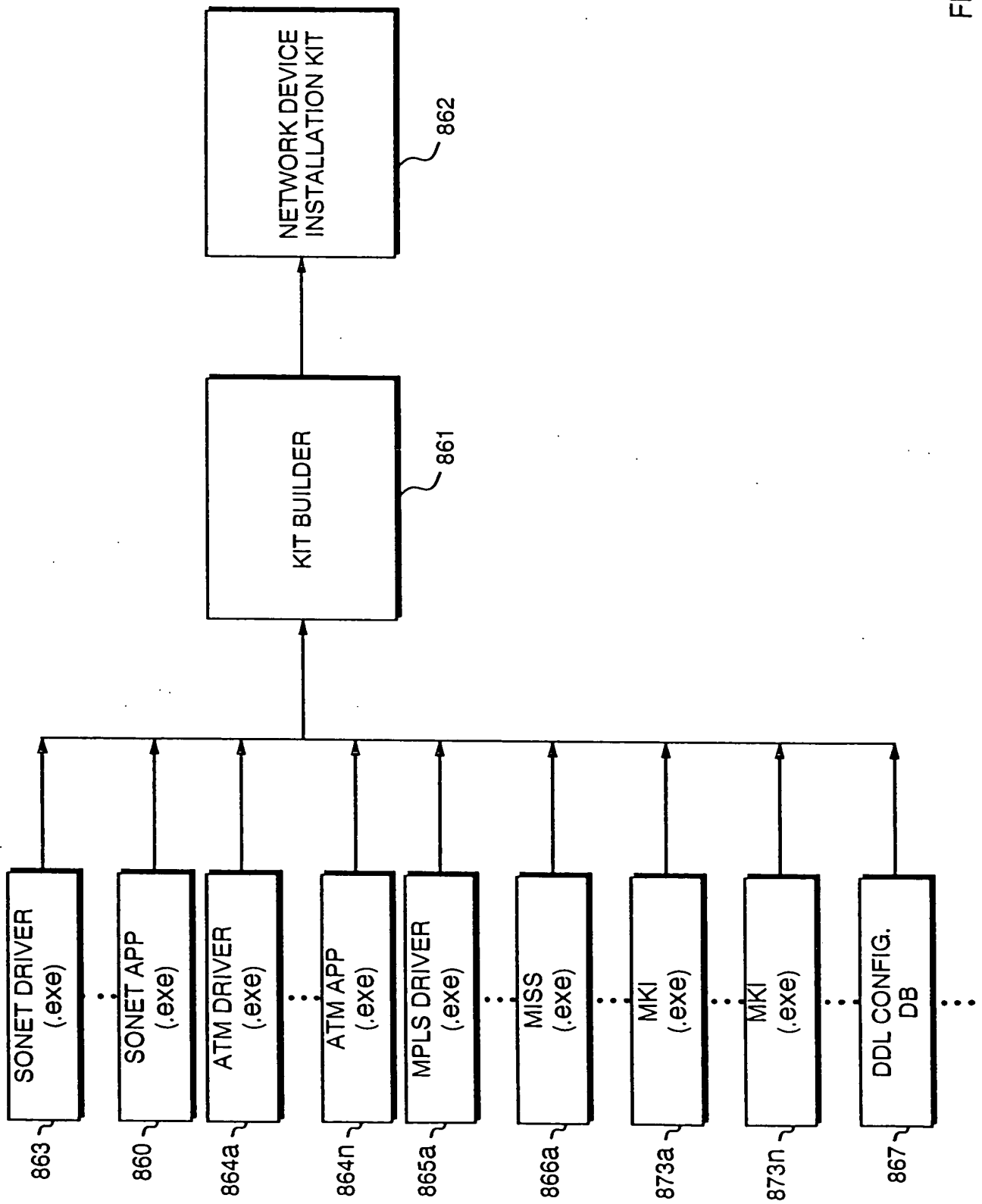
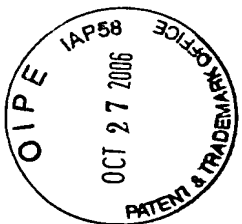


FIG. 3F



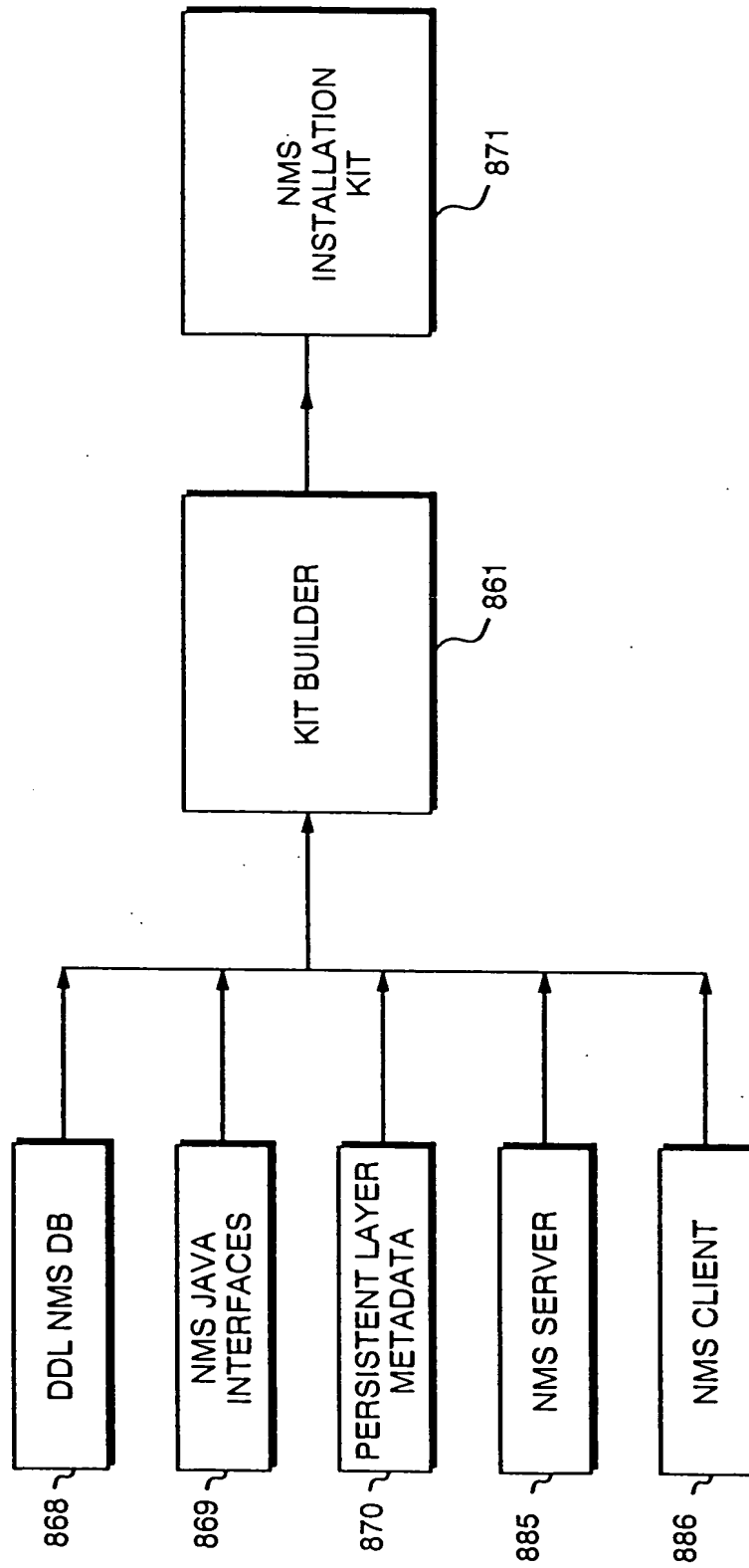
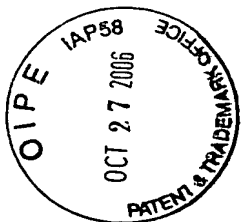


FIG. 3G



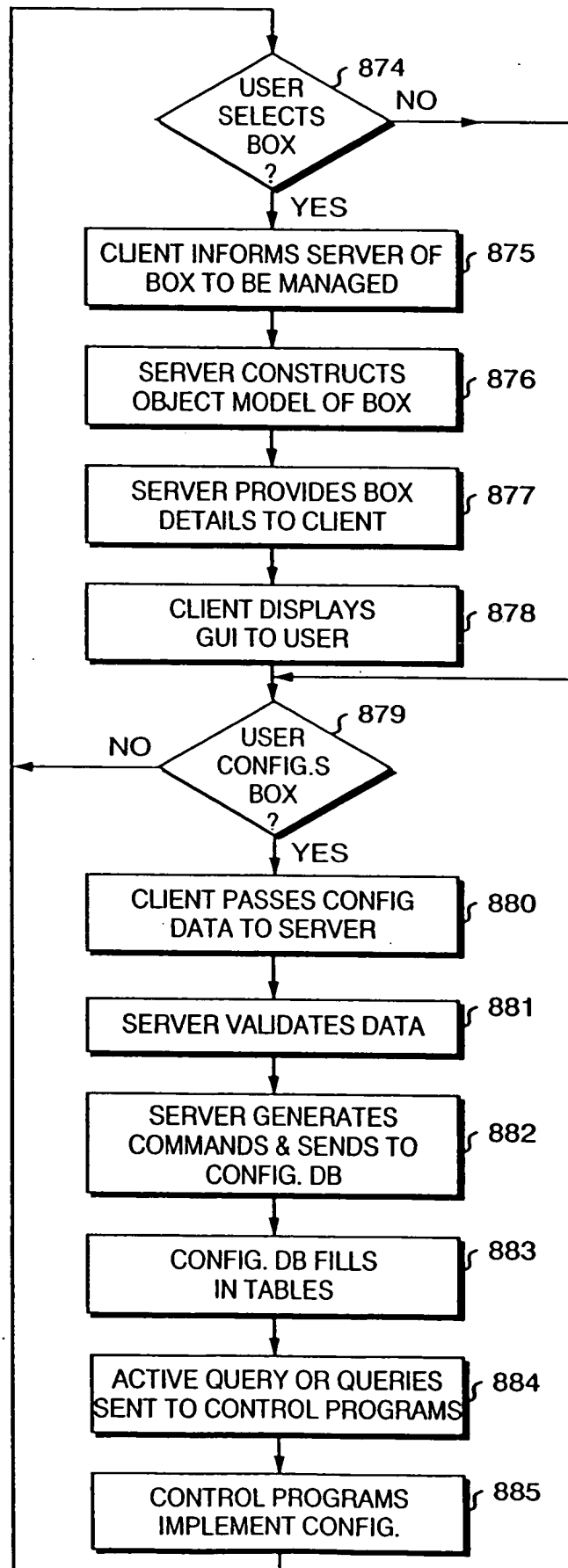
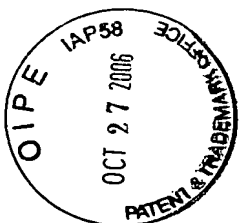


FIG. 3H



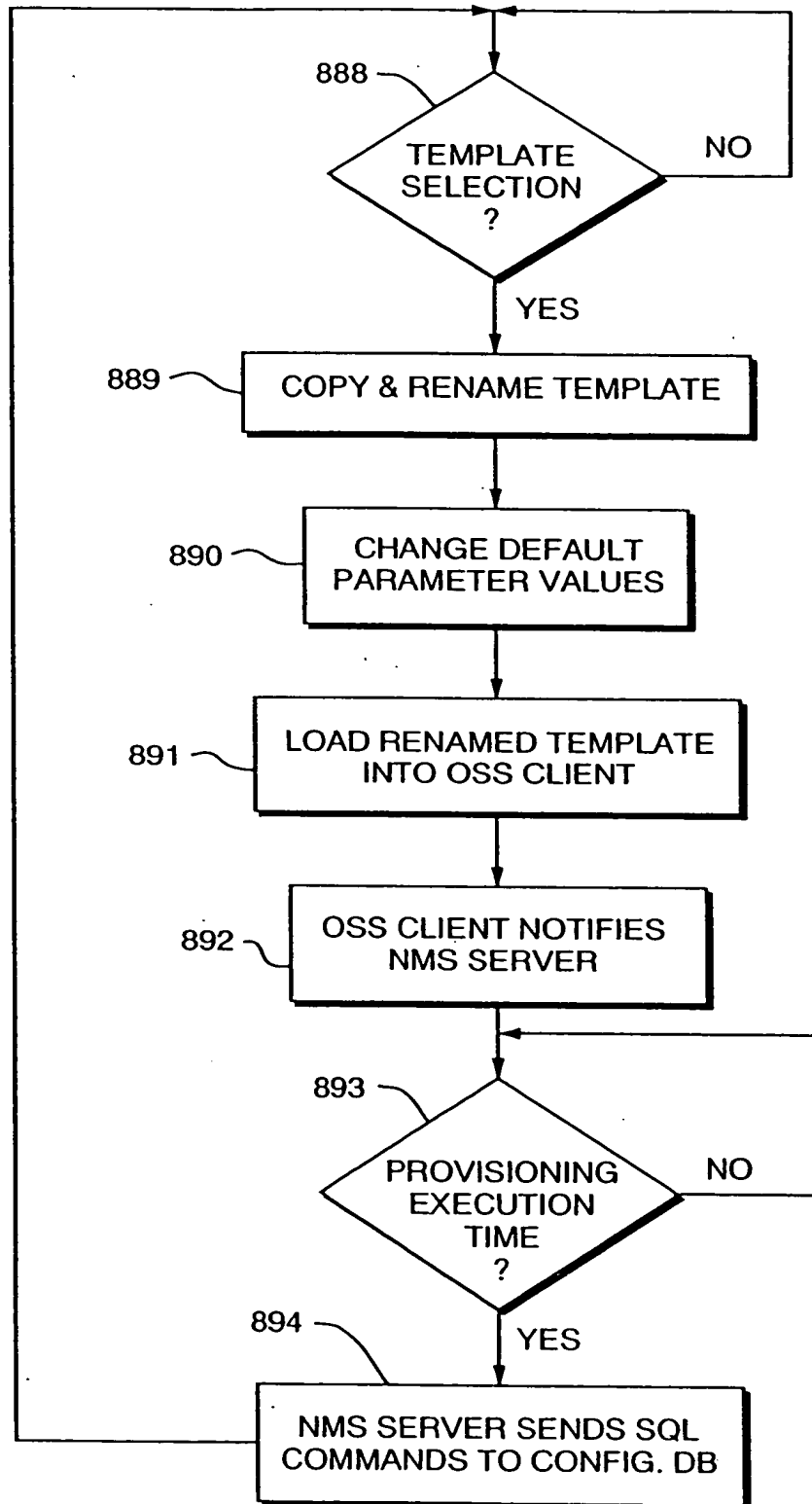


FIG. 31



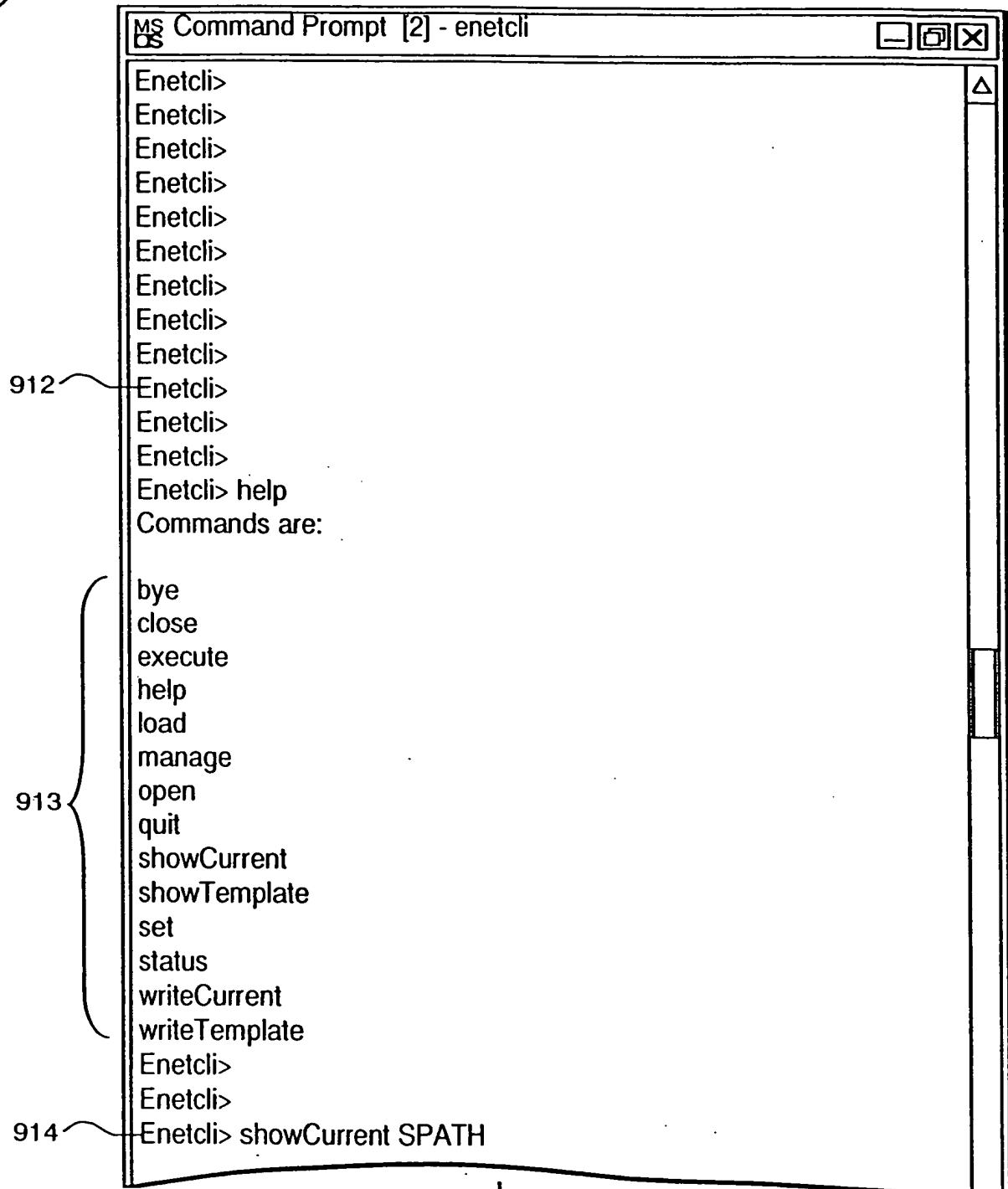


FIG. 3J

FROM FIG. 3J

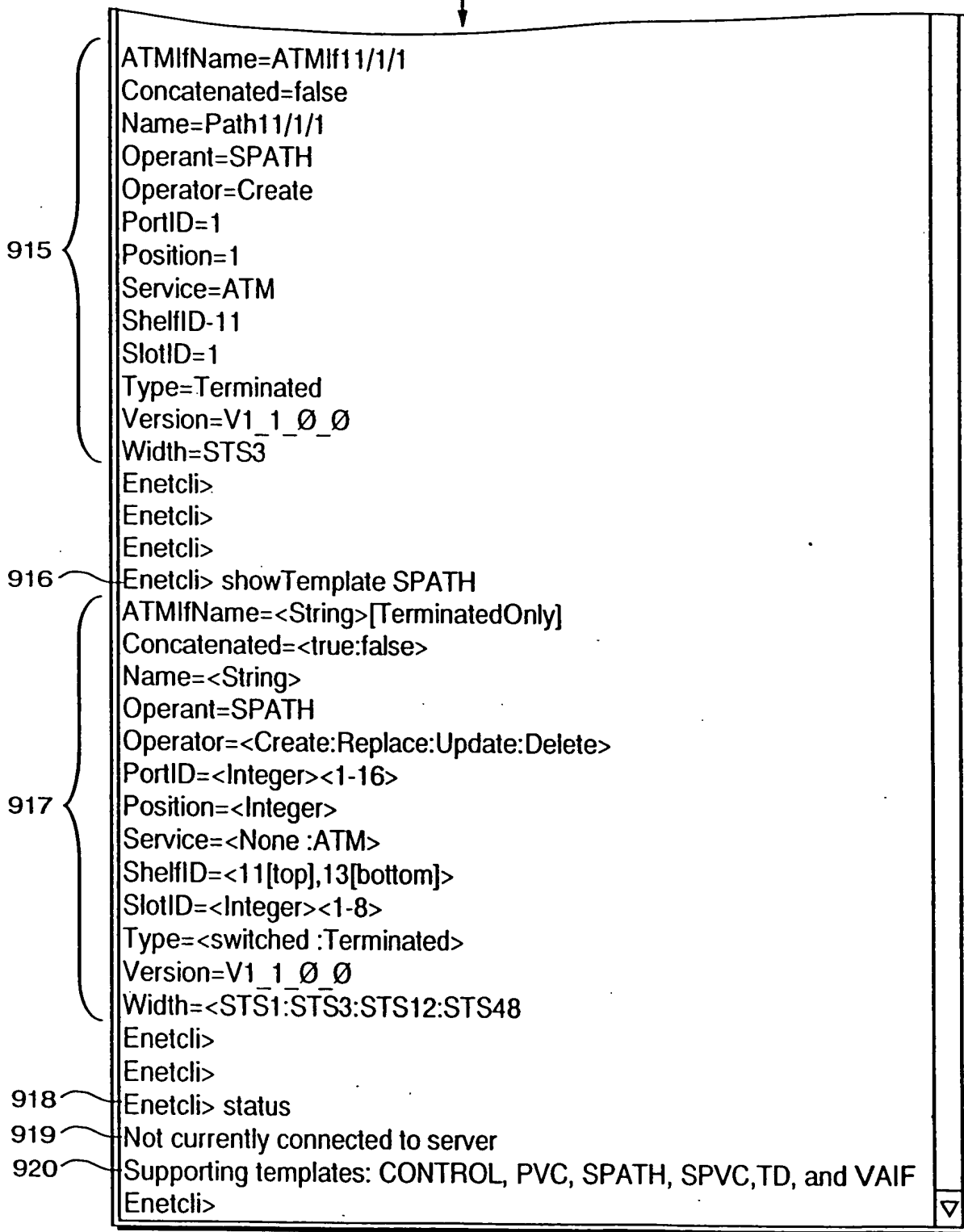


FIG. 3K

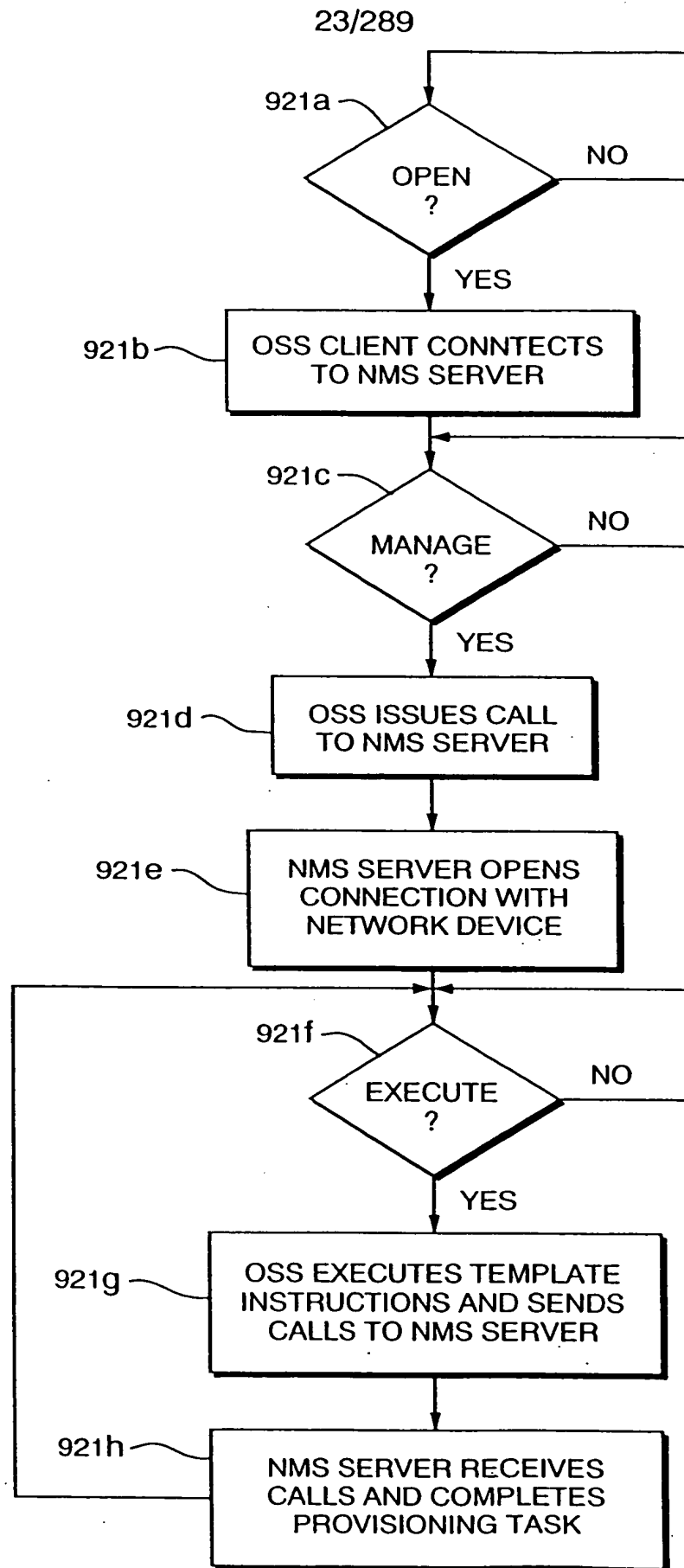


FIG. 3L



```
MS Command Prompt [2] - enetcli
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
922 Enetcli> showCurrent CONTROL
input=Q:\nms\com\equipecom\nms\utils\enetcli
Interactive=false
Operant=CONTROL
923d Operator=Manage
923f Output=Q:\nms\com\equipecom\nms\utils\enetcli
923c Password=None
923e System=192.168.9.202
923b User=None
923g Version=V1_1_0_0
923a Server=localhost
Enetcli>_
```

FIG. 3M



BATCH

924



Operant=BATCH

Operator=Execute

Version=V1_1_0_0

924a ~ TASK1=execute-SPATH

924b ~ TASK2=execute-PVC

924c ~ TASK3=execute-SPVC

924d ~ TASK4=load-SPVC-spvc1

924e ~ TASK5=execute-SPVC

924f ~ TASK6=load-SPVC-spvc2

924e ~ TASK7=execute-SPVC

.

924g ~ TASK50=set-SPATH-PortID-3

924h ~ TASK51=execute-SPATH

924i ~ TASK52=set-SPATH-SlotID-2

924j ~ TASK53=execute-SPATH

FIG. 3N



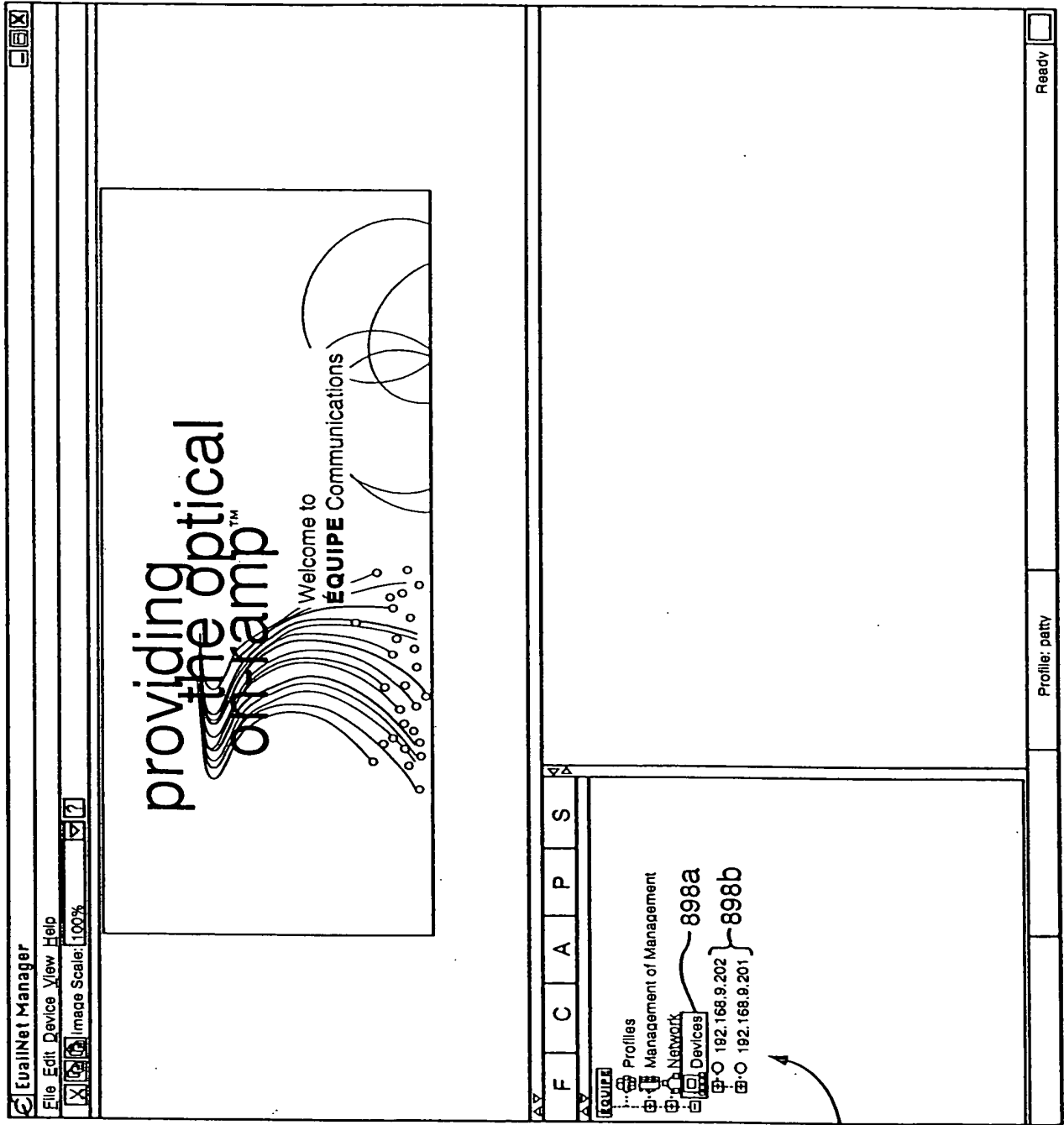
925

Operant=BATCH
Operator=Execute
Version=V1_1_0_0
925a ~ TASK1=execute-CONTROL
925b ~ TASK2=execute-SPATH
925c ~ TASK3=set-SPATH-PortID-3
925d ~ TASK4=execute-SPATH
.
.
925e ~ TASK61=set-CONTROL-System-192.168.9.201
925f ~ TASK62=execute-CONTROL
925g ~ TASK63=execute-SPATH
.
.
925h ~ TASK108=close
925i ~ TASK109=set-CONTROL-Server-Server1
925j ~ TASK110=set-CONTROL-System-192.168.8.200
925k ~ TASK111=execute-CONTROL
925l ~ TASK112=execute-SPATH
.
.
.

FIG. 30



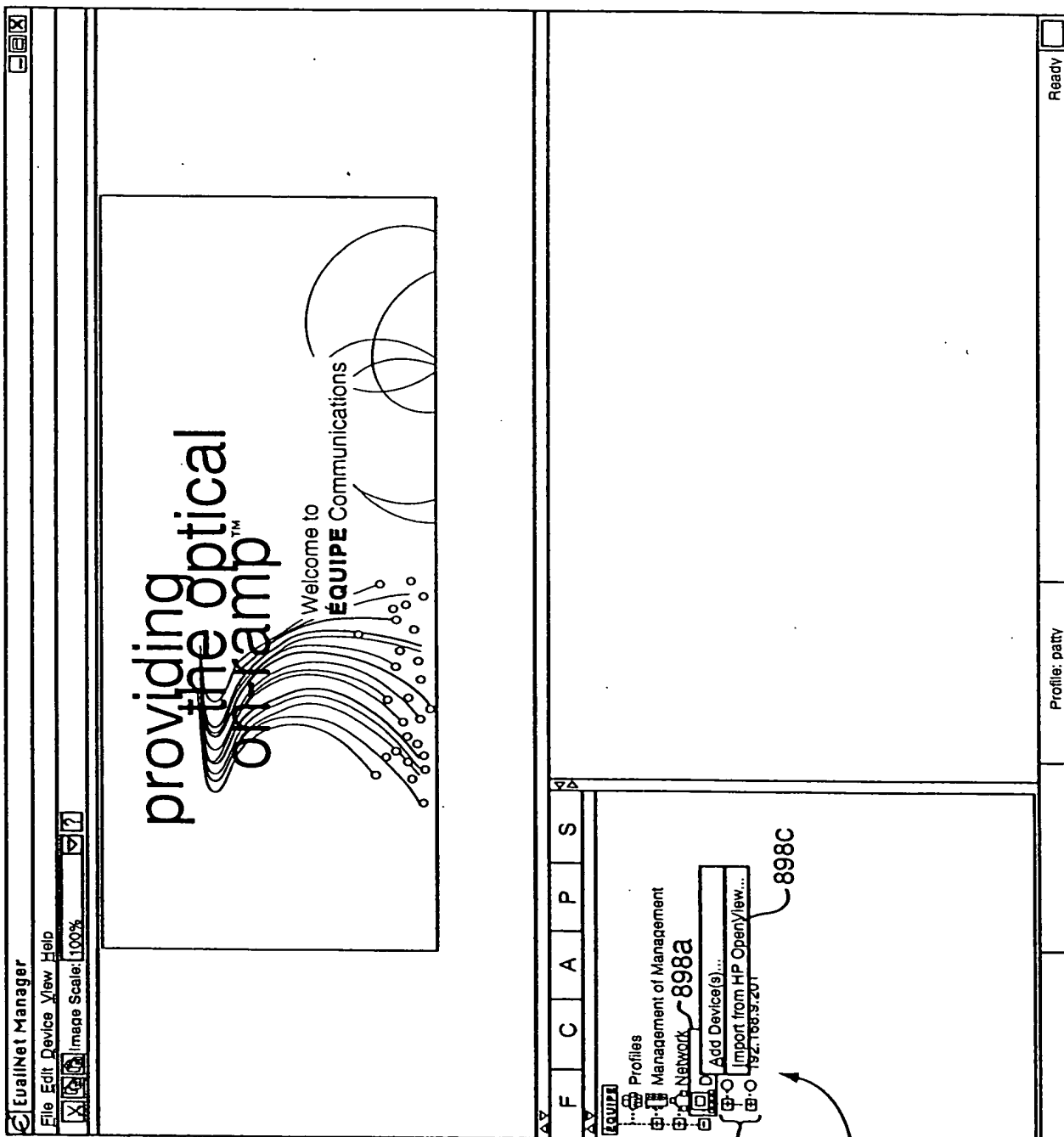
895



898

FIG. 4A

895



898b

898

898C

FIG. 4B



AddDeleteDeviceDlg

Enter device to add 898e

192.168.9.203

☒ Manage device in on-line mode

Add 898f

Device List

On-Line Device

OK Cancel Delete

898d

FIG. 4C

AddDeleteDeviceDlg

Enter device to add 898e

☒ Manage device in on-line mode

Add 898f

Device List

On-Line Device

☒ 192.168.9.203 898g

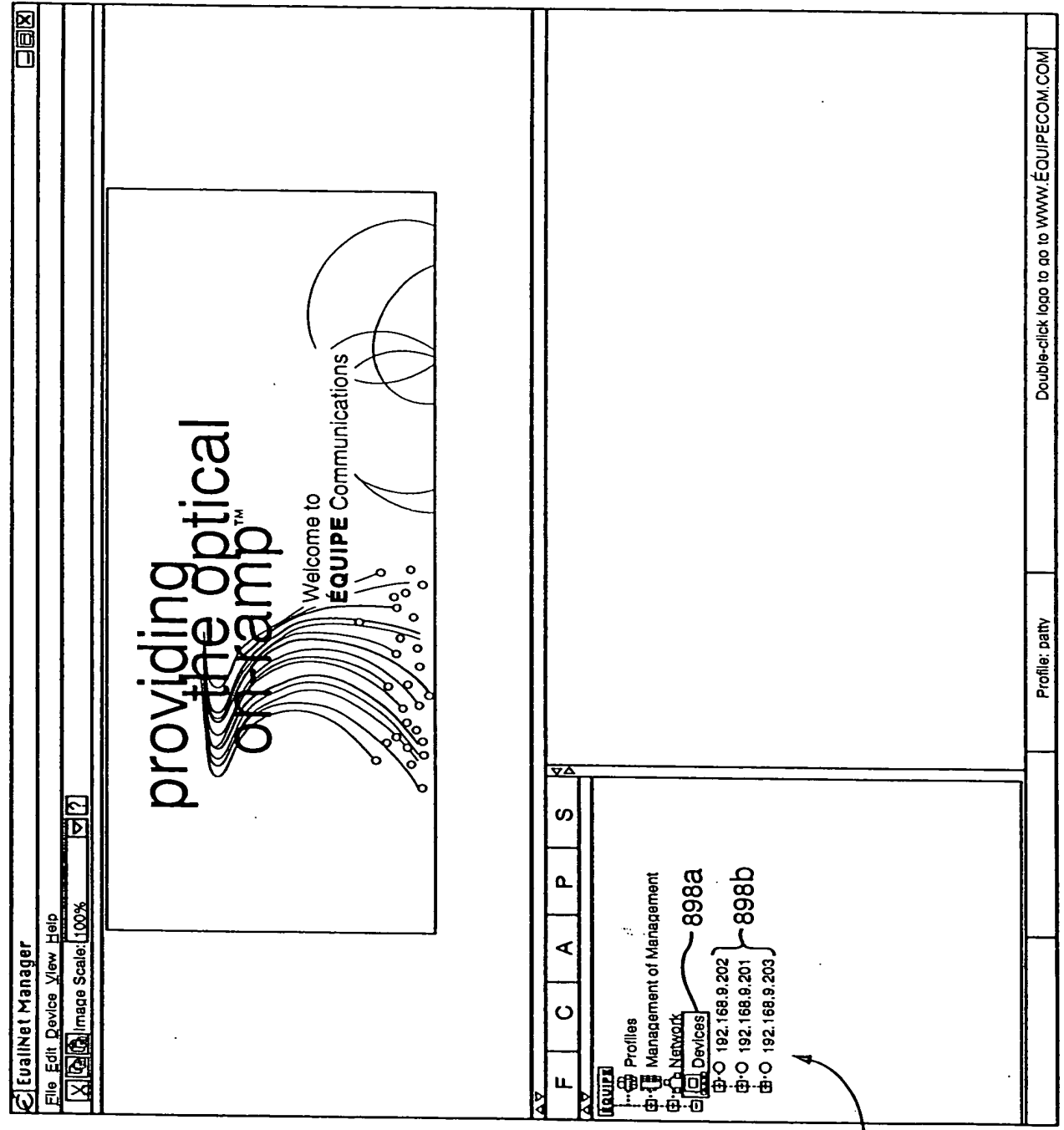
898j OK 898i Cancel 898h Delete

898d

FIG. 4D



895



898

FIG. 4E

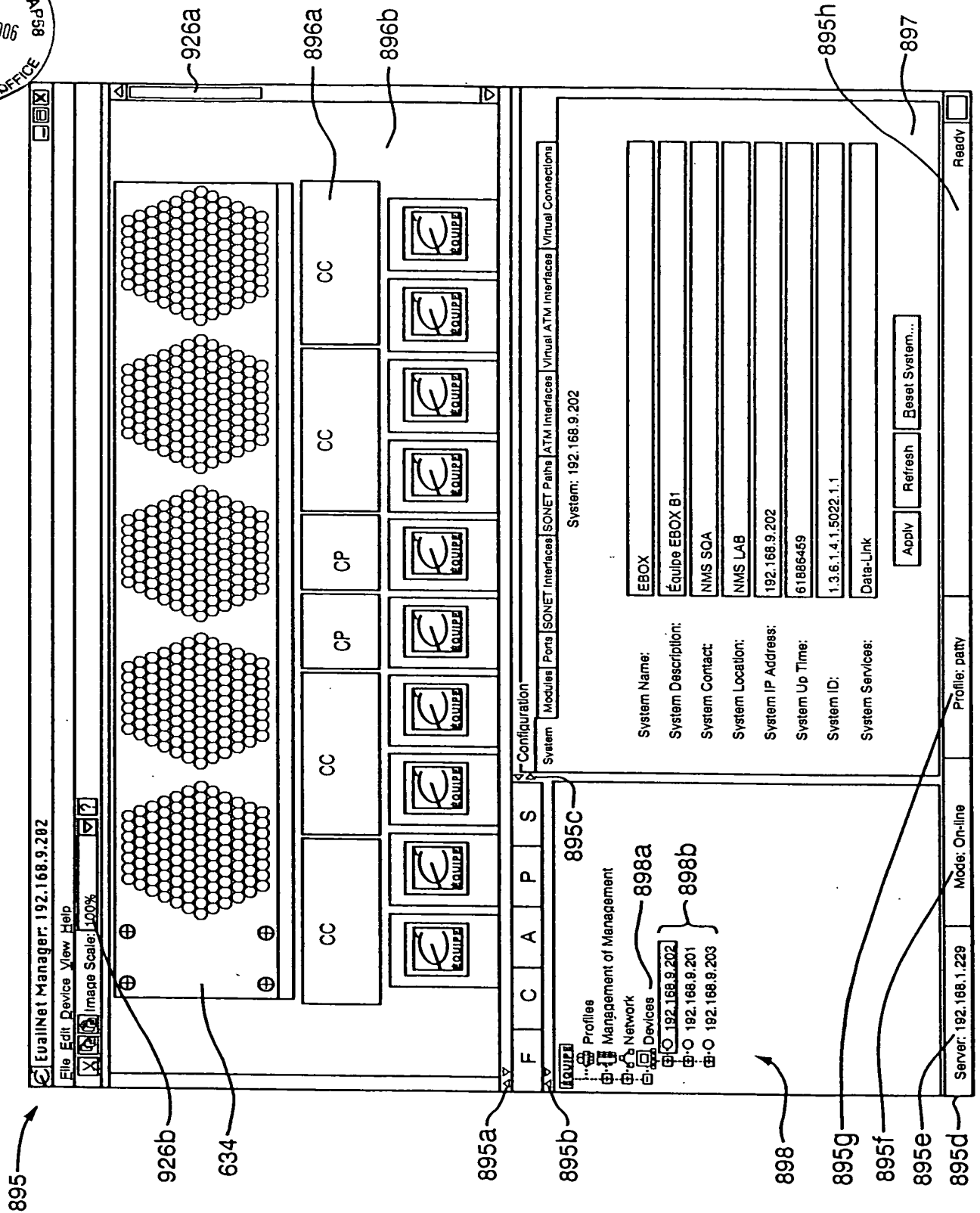


FIG. 4F

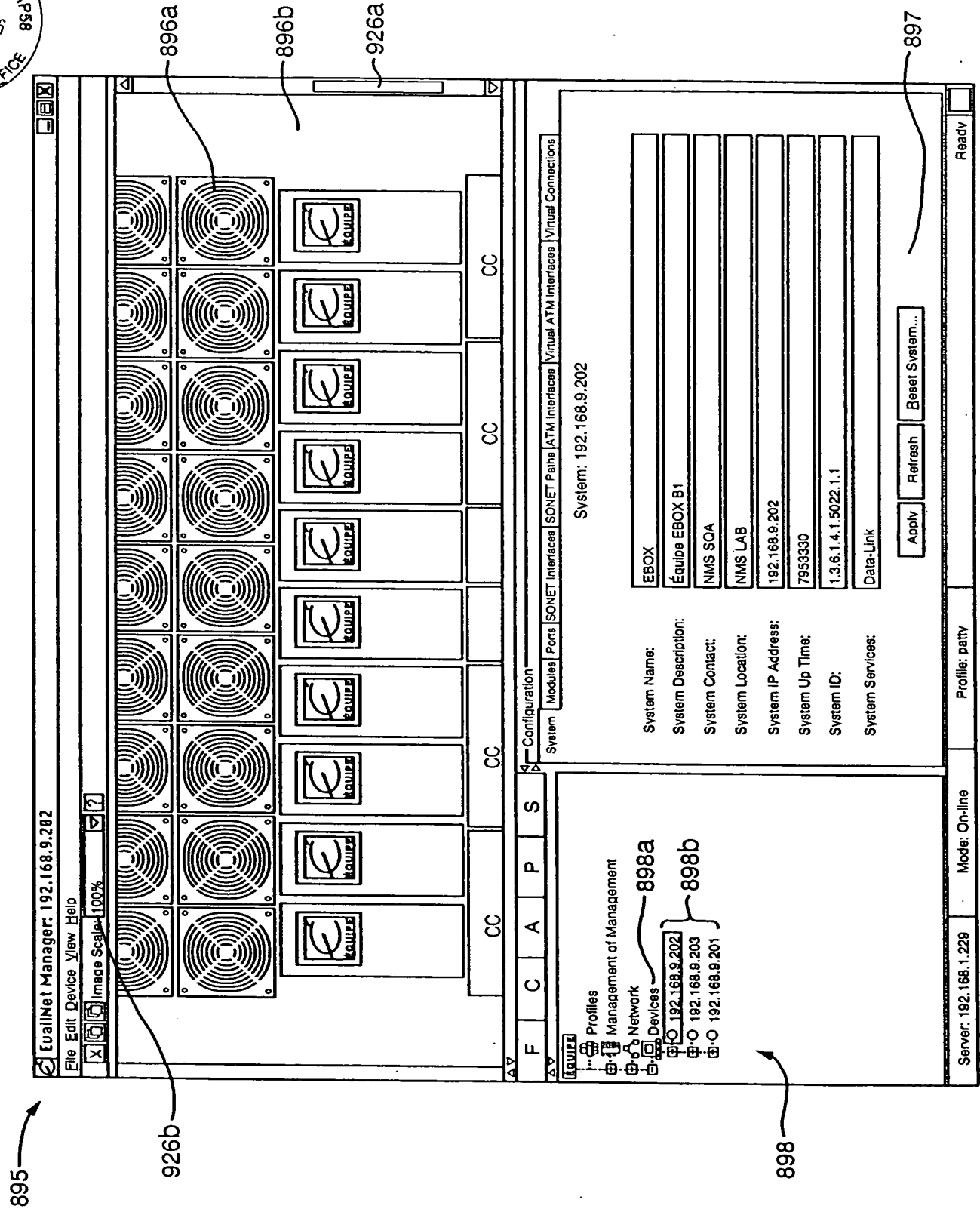


FIG. 4G

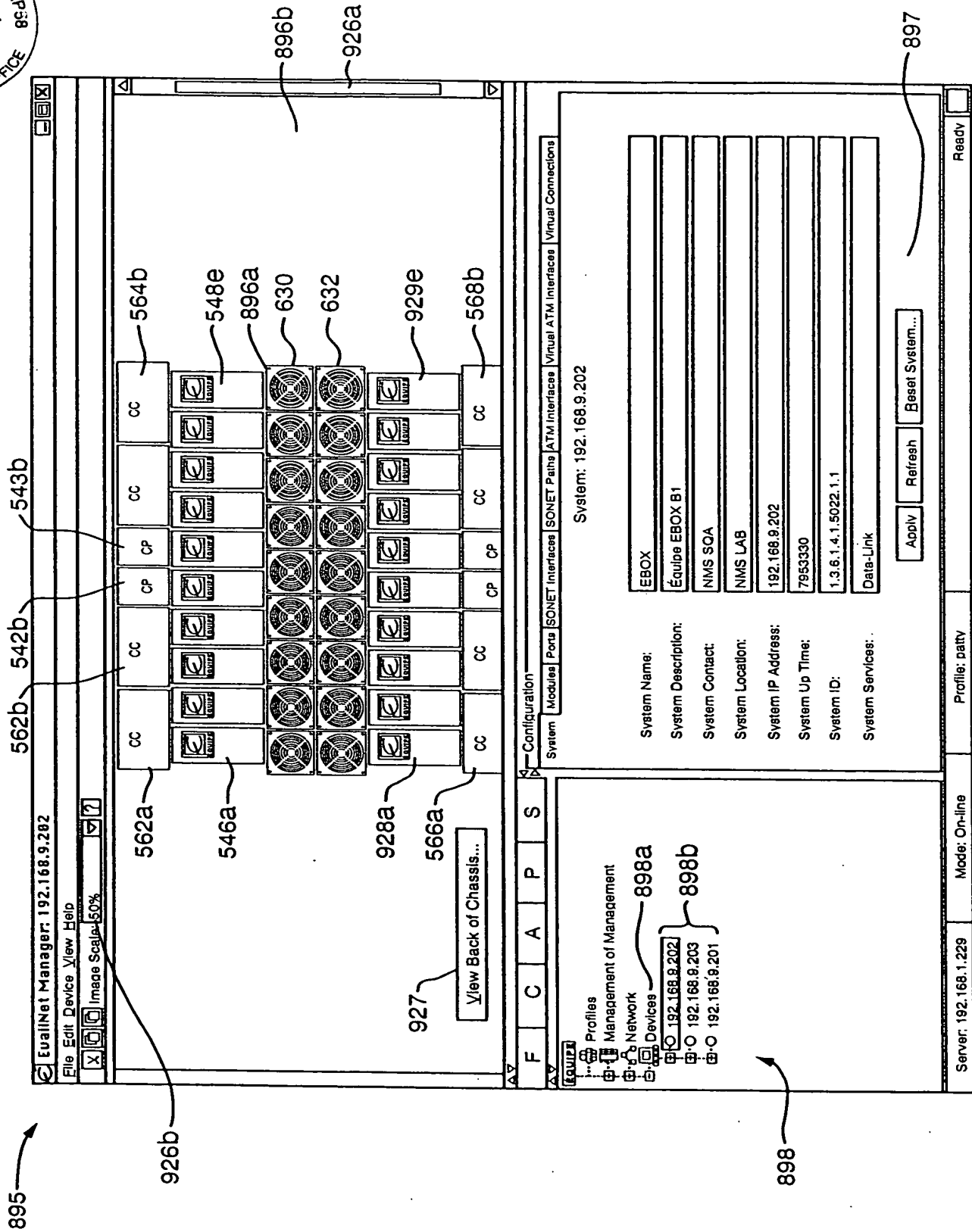
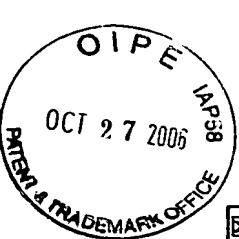


FIG. 4H

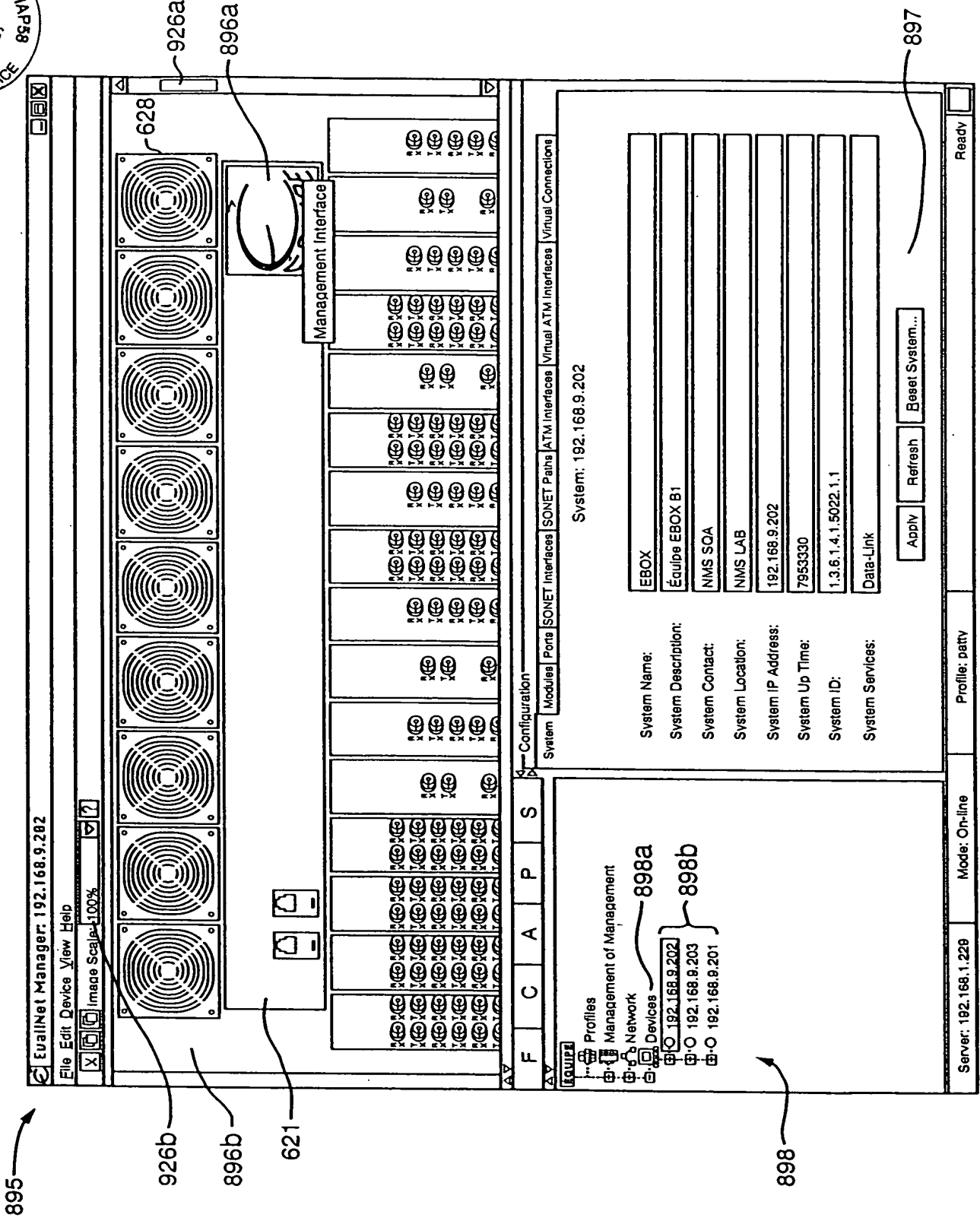


FIG. 4I

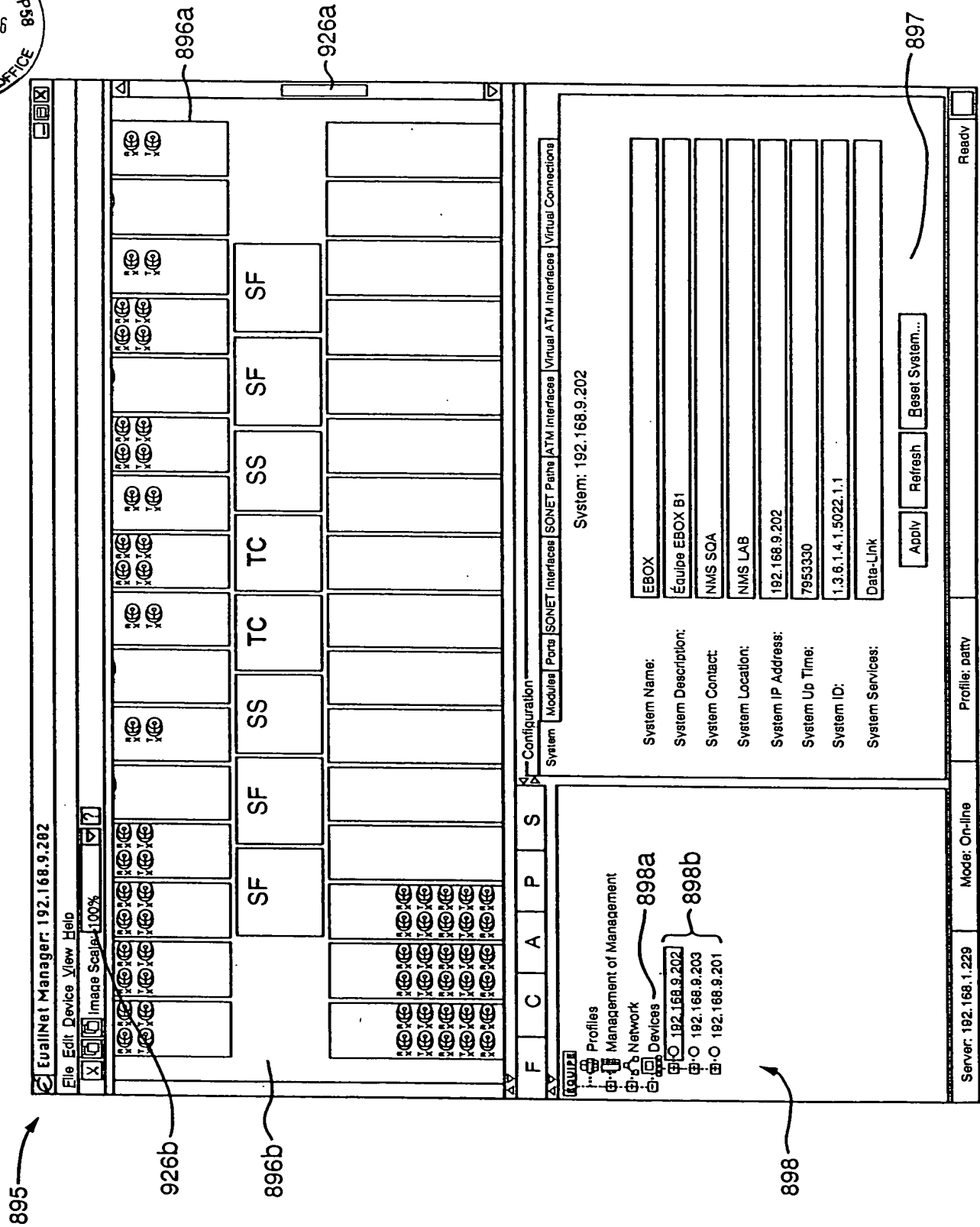


FIG. 4J

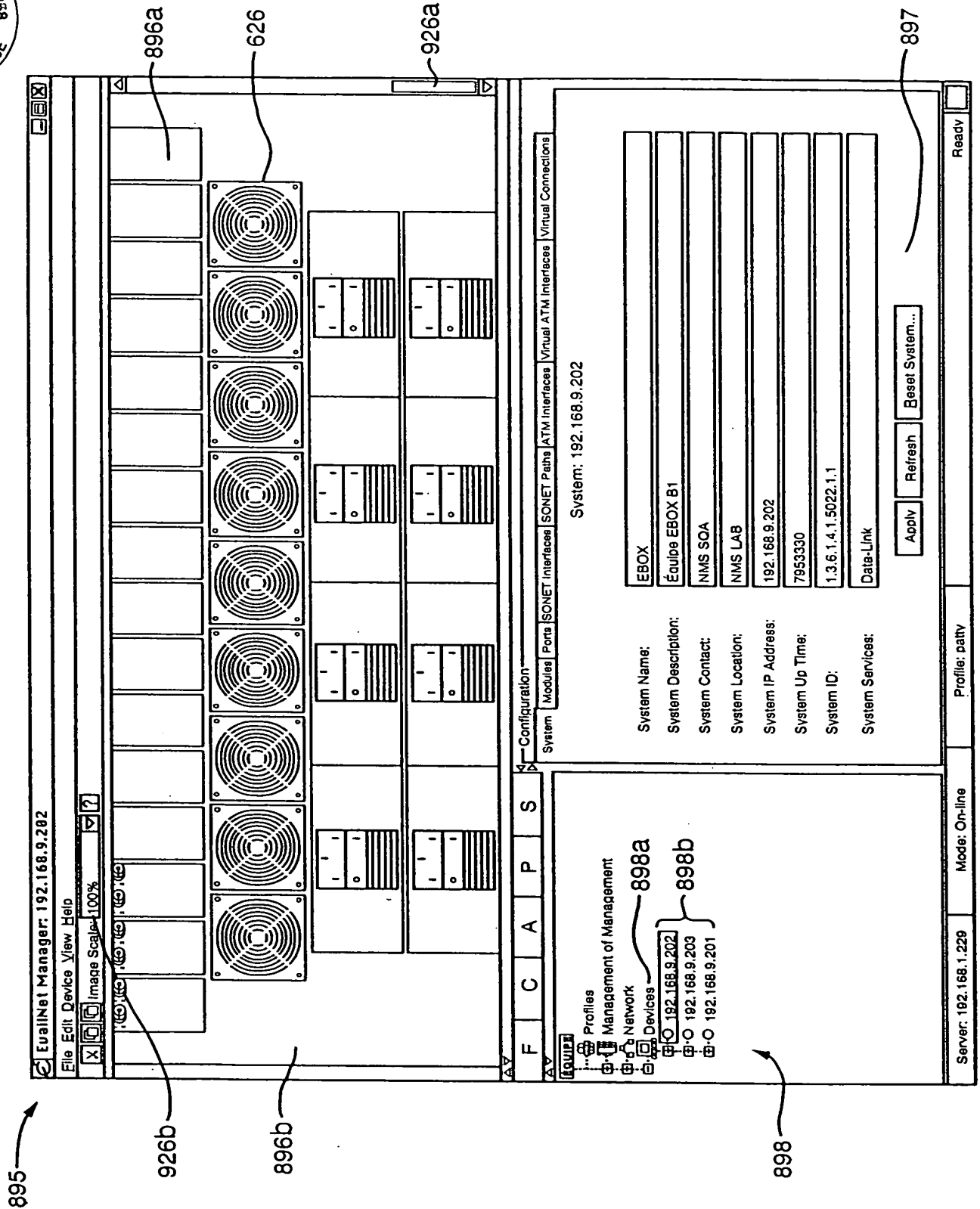


FIG. 4K

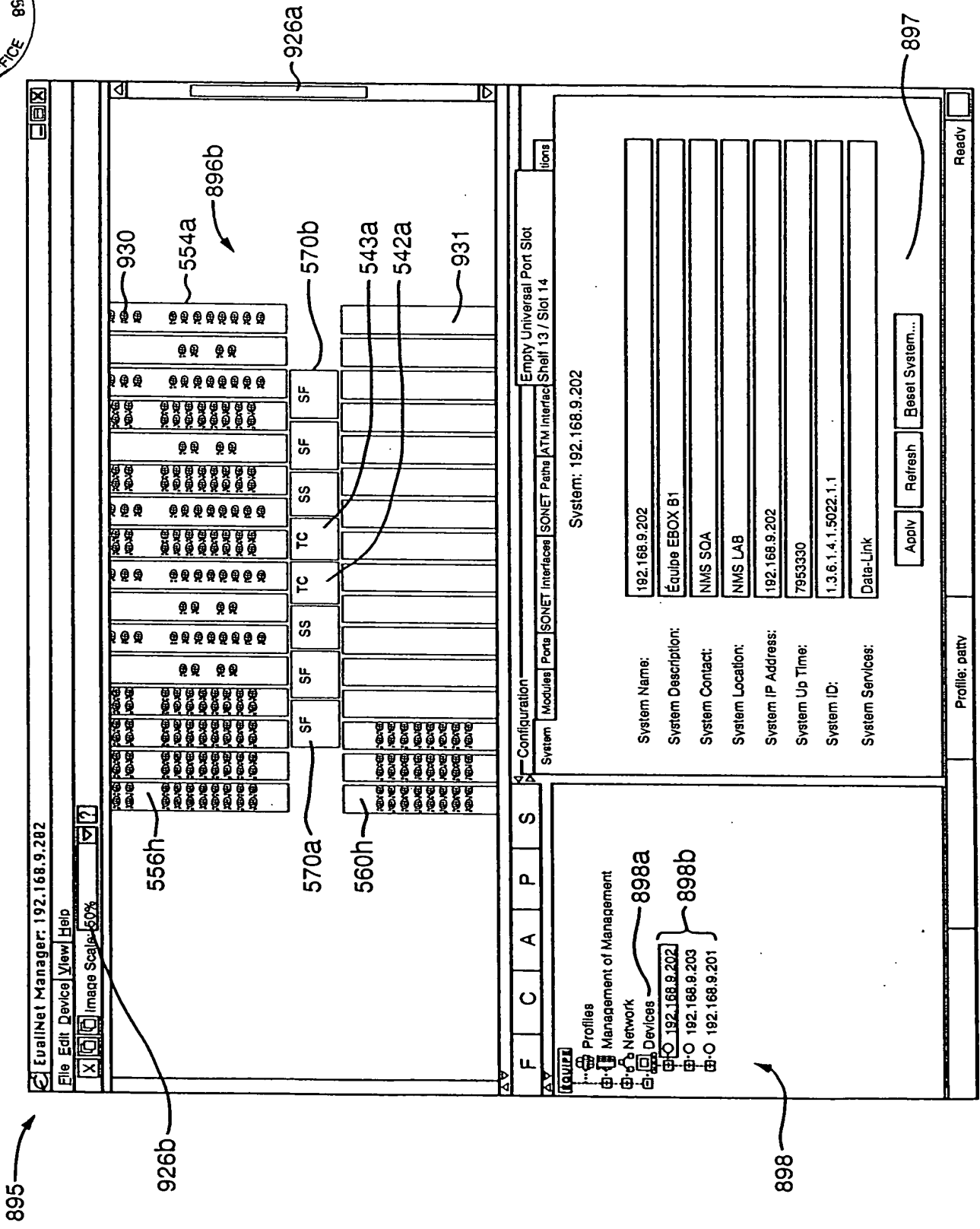


FIG. 4L

FIG. 4M

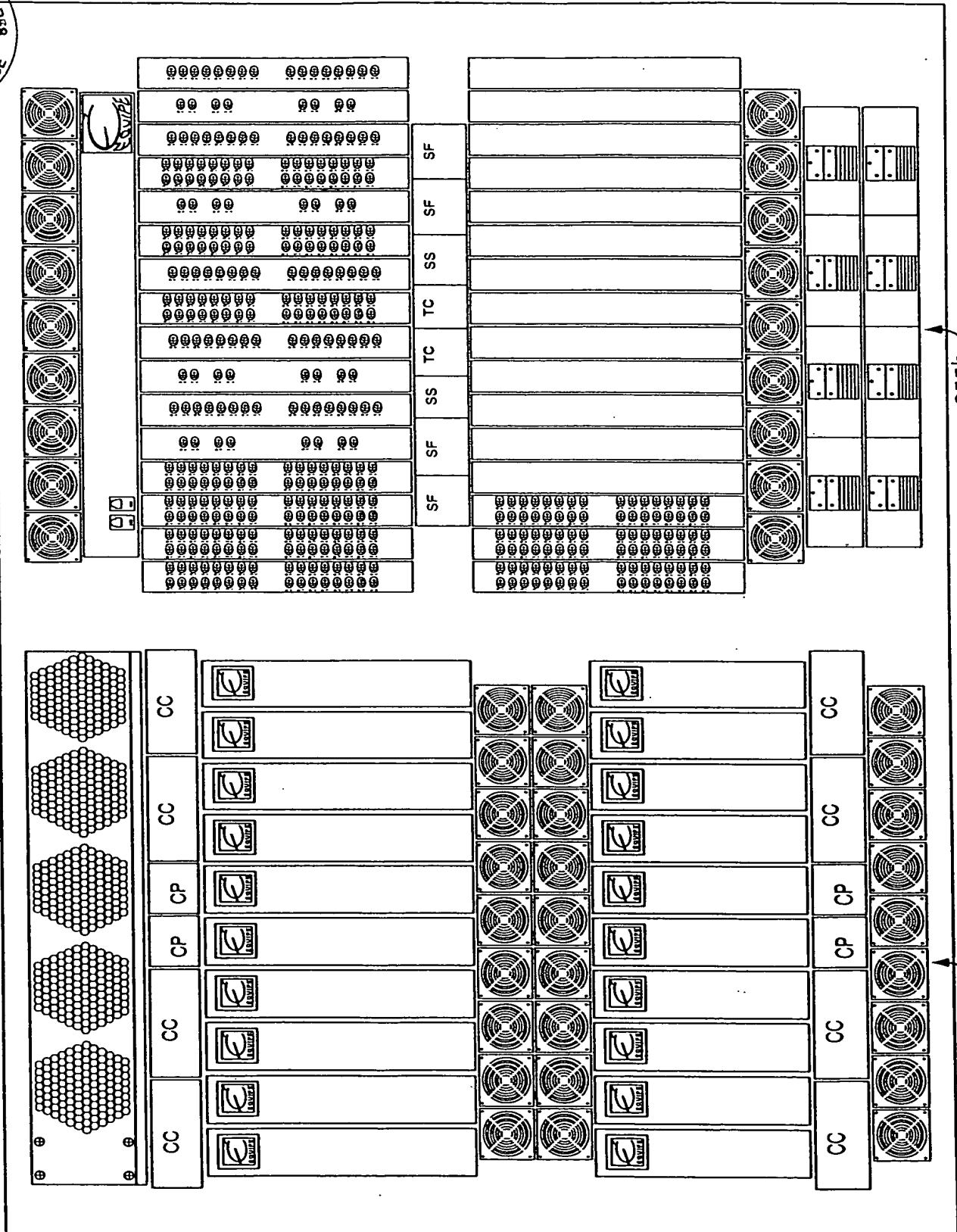


FIG. 4N

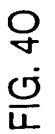


FIG. 40

895

556e

897

EvalNet Manager: 192.168.9.202

File Edit Device View Help

Image Scale: 100%

16 Port OC12 Universal Port Module 932b

Shelf 11/Slot 4

System: 192.168.9.202

Configuration

System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections

System Name: EBOX

System Description: Équipe EBOX B1

System Contact: NMS SQA

System Location: NMS LAB

System IP Address: 192.168.9.202

System Up Time: 7953330

System ID: 1.3.6.1.4.1.5022.1.1

System Services: Data-Link

Apply Refresh Reset System...

Ready

Server: 192.168.1.229 Mode: On-line

Profile: patty

Profil Management of Management

Network

Devices

192.168.9.202

192.168.9.203

192.168.9.201

FIG. 4P

895

556d

EvalNet Manager: 192.168.9.202

File Edit Device View Help

Image Scale: 100%

4 Port OC48 Universal Port Module 932C

Shelf 11/Slot 5

SONET Interfaces

SONET Ports

SONET Paths

ATM Interfaces

Virtual ATM Interfaces

Virtual Connections

System: 192.168.9.202

System Name: EBOX

System Description: Écluse EBOX B1

System Contact: NMS SOA

System Location: NMS LAB

System IP Address: 192.168.9.202

System Up Time: 7953330

System ID: 1.3.6.1.4.1.5022.1.1

System Services: Data-Link

Apply Refresh Reset System...

Profiles

Management of Management

Network

Devices

192.168.9.202

192.168.9.203

192.168.9.201

Server: 192.168.1.229

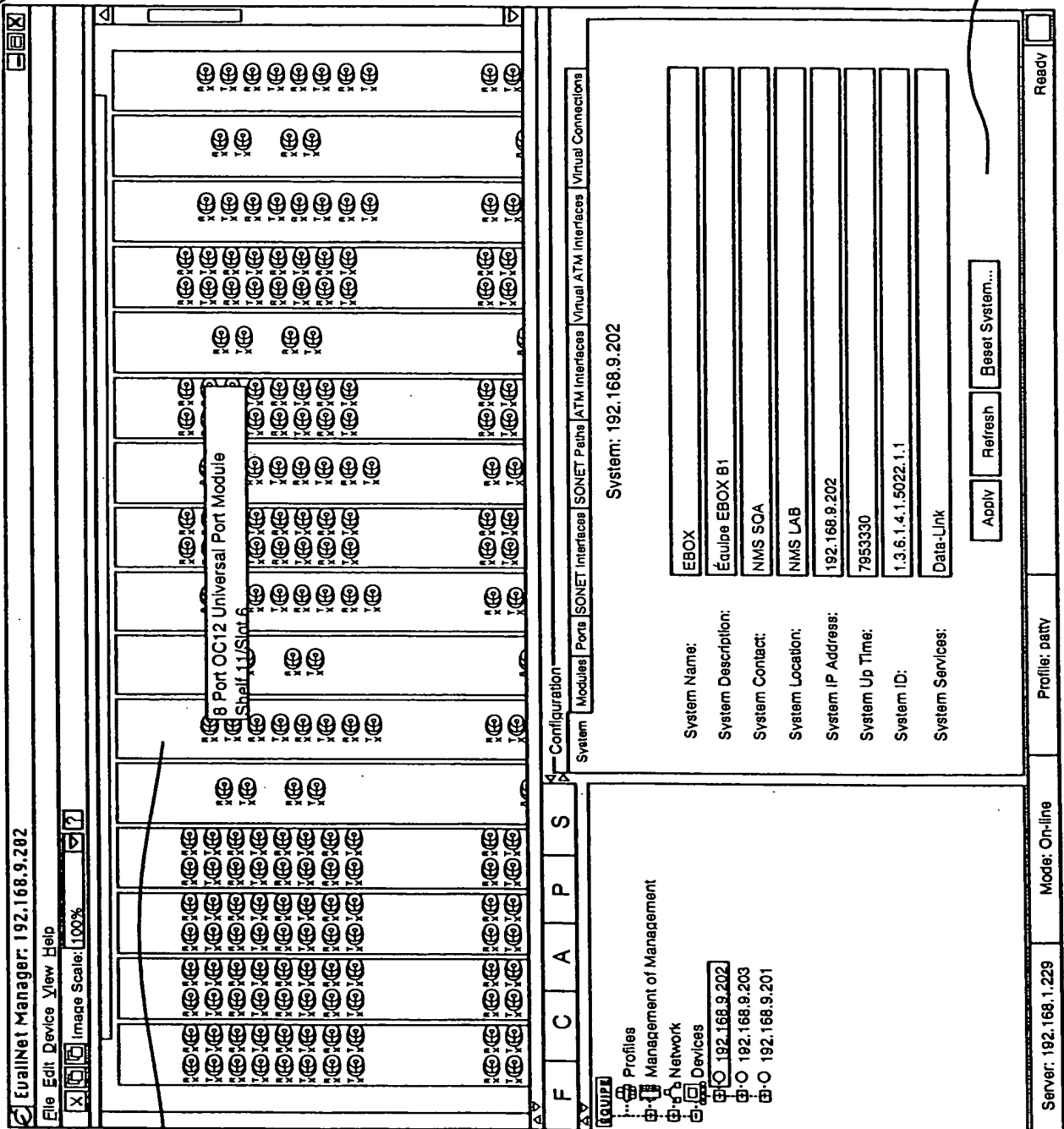
Mode: On-line

Profile: patty

Ready

897

FIG. 4Q



5560

897

FIG. 4R



895

933

897

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%

OC-12

Shelf 11/Slot 4/Port 1

932a

932b

932c

932d

932e

932f

932g

932h

932i

932j

932k

932l

932m

932n

932o

932p

932q

932r

932s

932t

932u

932v

932w

932x

932y

932z

F C A P S

Configuration

System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections

934

System: 192.168.9.202

934a

934b

934c

934d

934e

934f

934g

934h

System Name:

System Description:

System Contact:

System Location:

System IP Address:

System Up Time:

System ID:

System Services:

EBOX

Équipe EBOX B1

NMS SOA

NMS LAB

192.168.9.202

7953330

1.3.6.1.4.1.5022.1.1

Data-Link

935c

935a

935b

Apply Refresh Reset System...

Server: 192.168.1.229 Mode: On-line Profile: patty

Ready

FIG. 4S

895

556d

896a

937

897

EuallNet Manager: 192.168.9.202

File Edit Device View Help

Image Scale: 100%

System Modules Ports SONET Interfaces ATM Interfaces Virtual ATM Interfaces Virtual Connections

System: 192.168.9.202

Configuration

Module Details

Shelf & Slot	Location	Description	Oper. Status	Temperature	Version	Mfg. Date	Part
7/6	front	Cross Connect	Status Unknown	Temp Unknown			
8/1	front	Small Fan Tray	Status Unknown	Temp Unknown			
9/1	back	Small Fan Tray	Status Unknown	Temp Unknown			
10/1	back	Management Interface	Status Unknown	Temp Unknown			
11/1	back	16 Port OC3 Universal Port	Status Unknown	Temp Unknown			
11/2	back	16 Port OC3 Universal Port	Status Unknown	Temp Unknown			
11/3	back	16 Port OC3 Universal Port	Status Unknown	Temp Unknown			
11/4	back	16 Port OC12 Universal Port	Status Unknown	Temp Unknown			
11/5	back	4 Port OC48 Universal Port	Status Unknown	Temp Unknown			
11/6	back	8 Port OC12 Universal Port	Status Unknown	Temp Unknown			
11/7	back	4 Port OC48 Universal Port	Status Unknown	Temp Unknown			
11/8	back	8 Port OC12 Universal Port	Status Unknown	Temp Unknown			
11/9	back	16 Port OC12 Universal Port	Status Unknown	Temp Unknown			
11/10	back	16 Port OC12 Universal Port	Status Unknown	Temp Unknown			

Module Count: 64

Refresh Reset Module(s) Software...

Profile: patty

Server: 192.168.1.229 Mode: On-line

Ready

4 Port OC48 Universal Port Module 932C

Shelf 11/Slot 5

895

556d

896a

937

897

Equipment

- Profiles
- Management of Management
- Network
- Devices
- 192.168.9.202
- 192.168.9.203
- 192.168.9.201

FIG. 4T

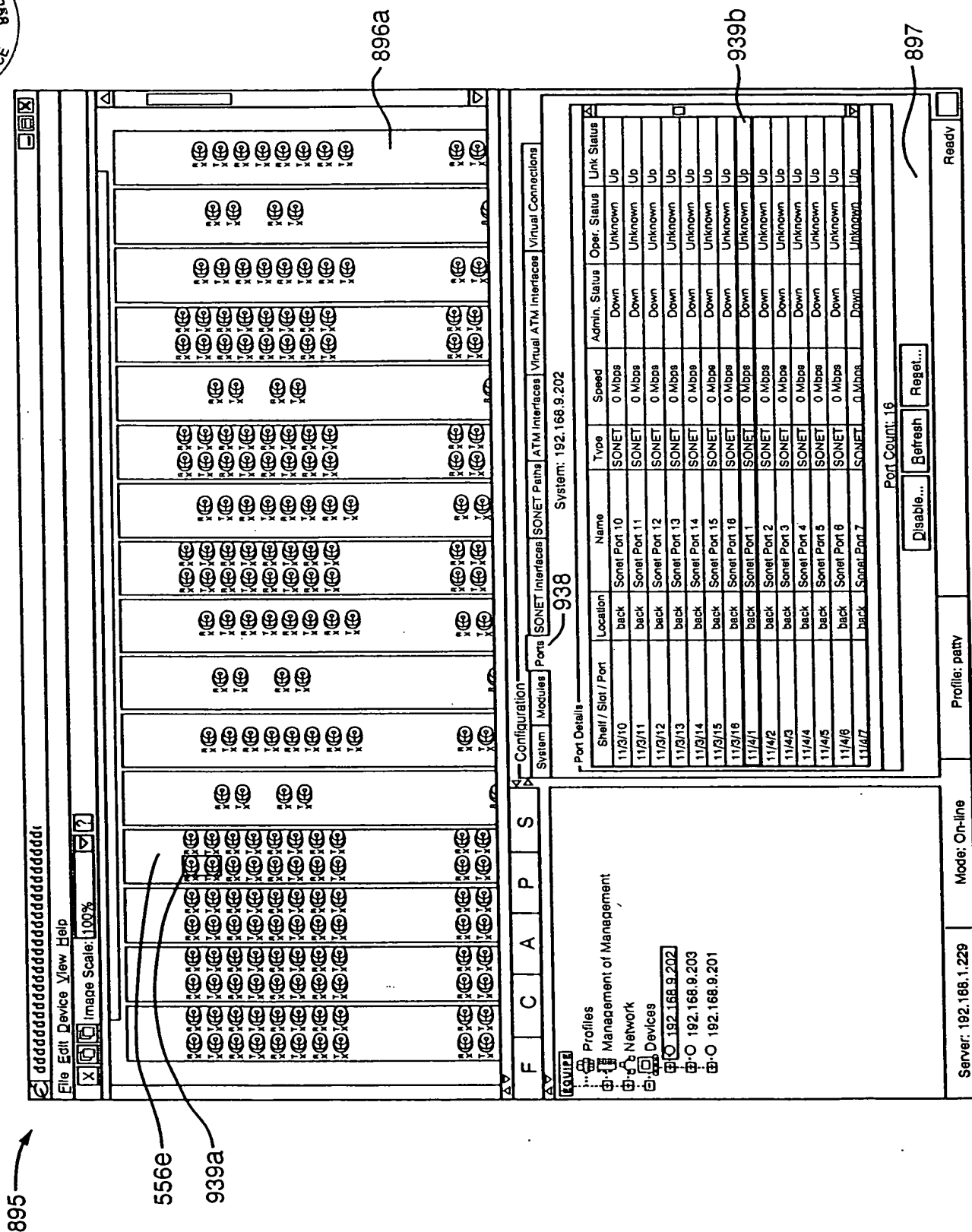


FIG. 4U

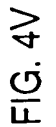


FIG. 4V

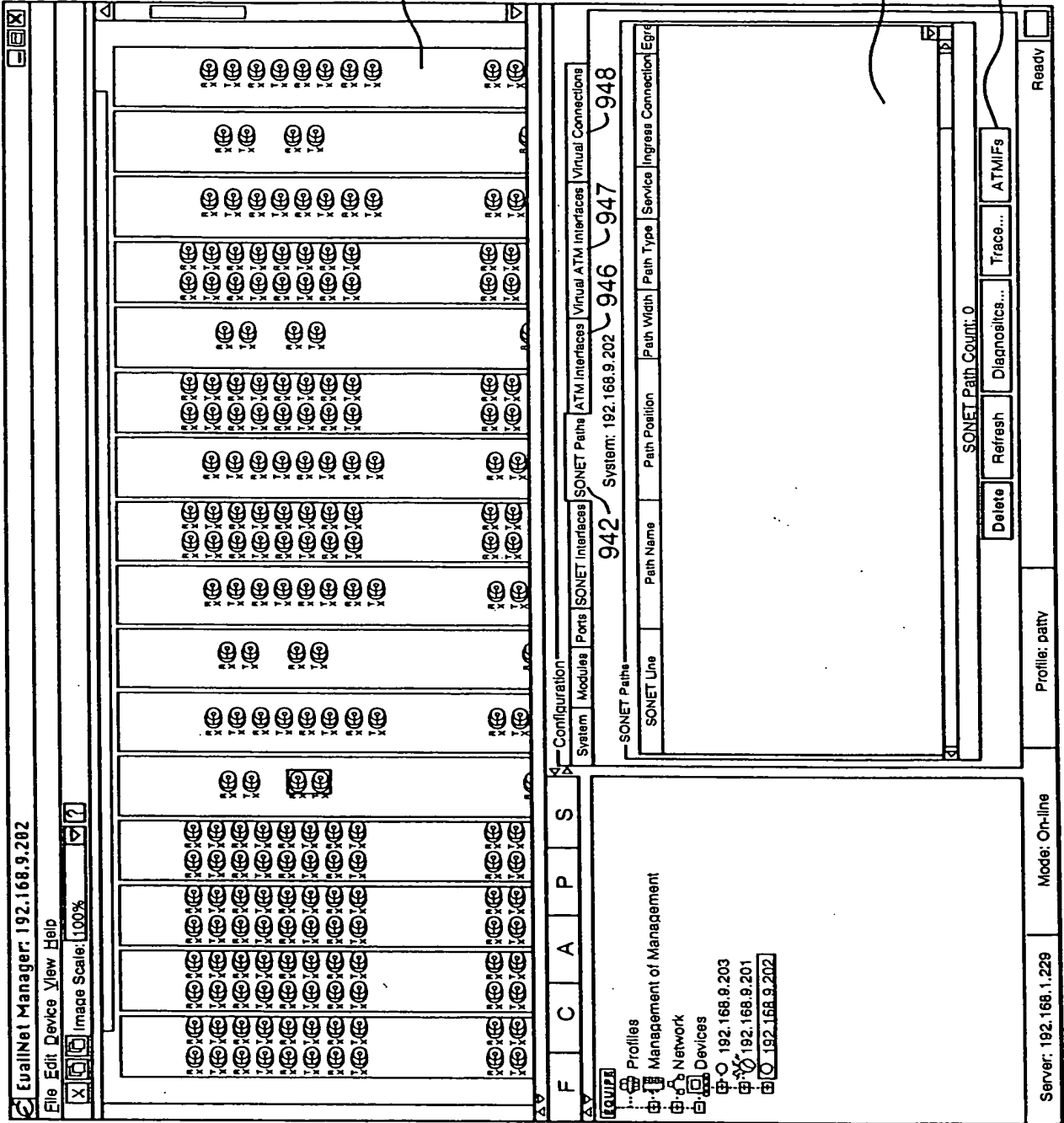


FIG. 4W

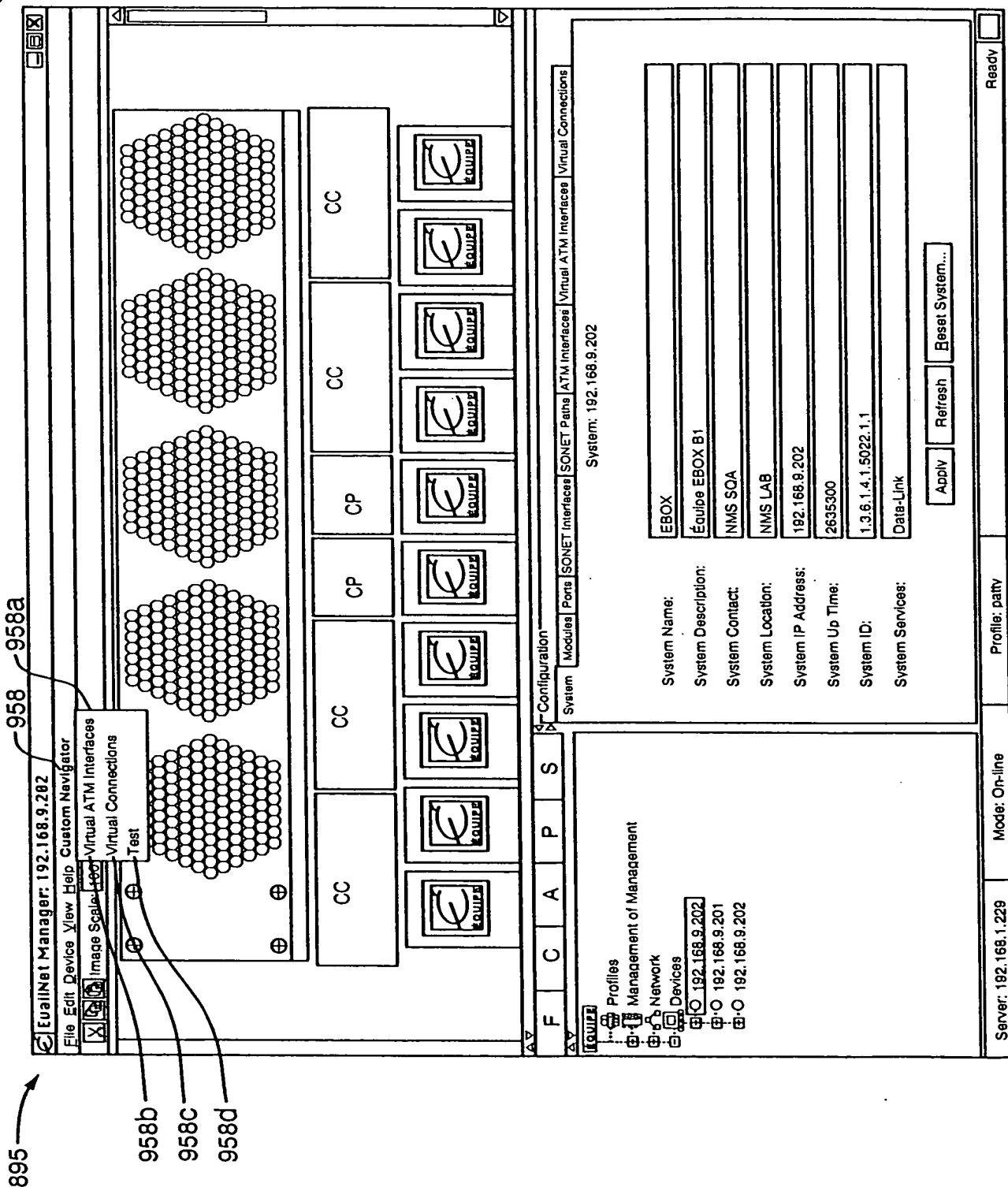


FIG. 4X

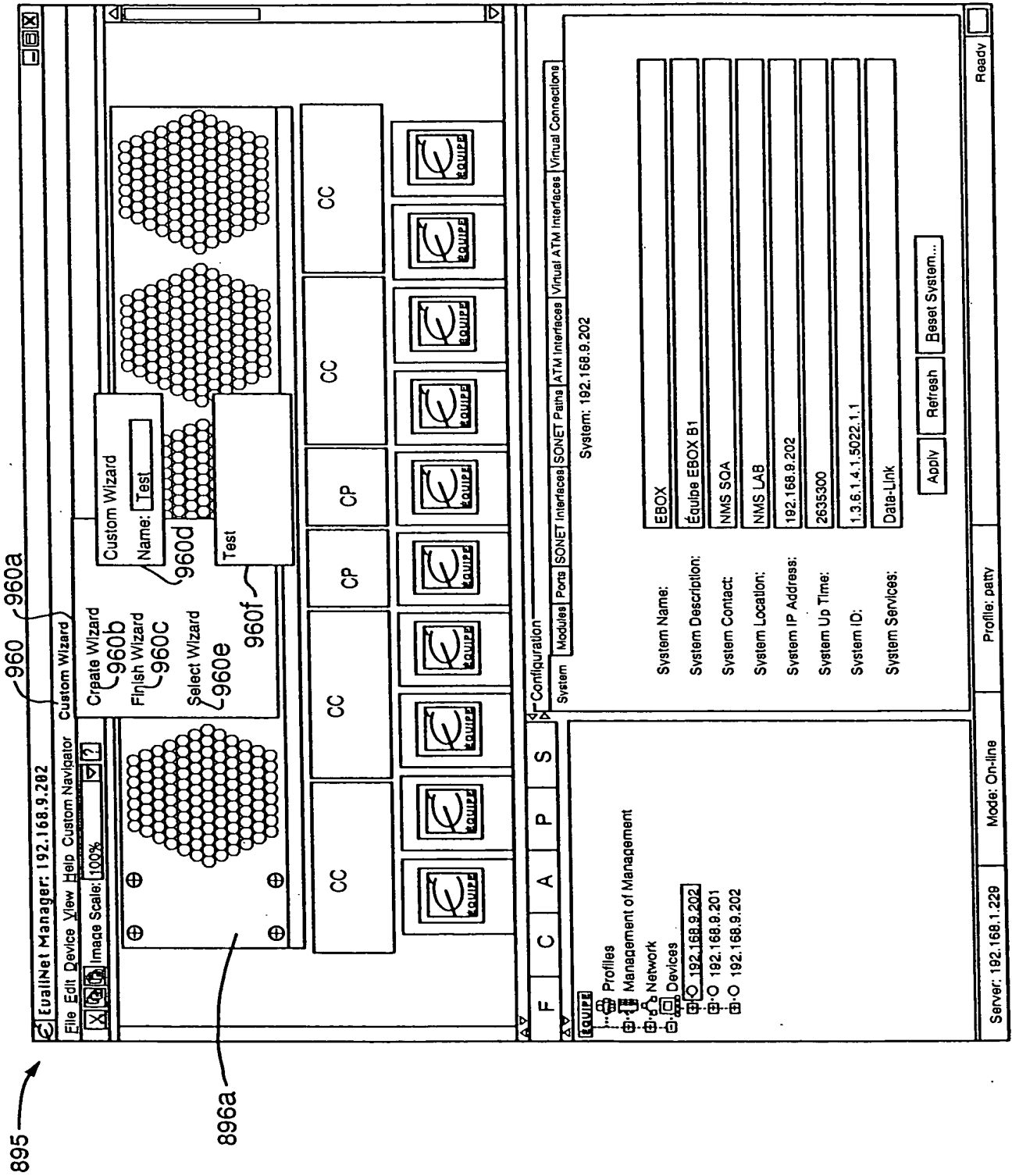


FIG. 4Y



961

EvaiiNet Manager: SONET Path Configuration 11/5/1

System: 192.168.9.202

SONET Line

961a

Slot

Port

Type

SONET Path Wizard

☐ Configure a single concatenated path (STS-48c)

☐ Configure

☐ Custom Configuration

4

STS-12c

paths

Next

Cancel

961b

FIG. 4Z

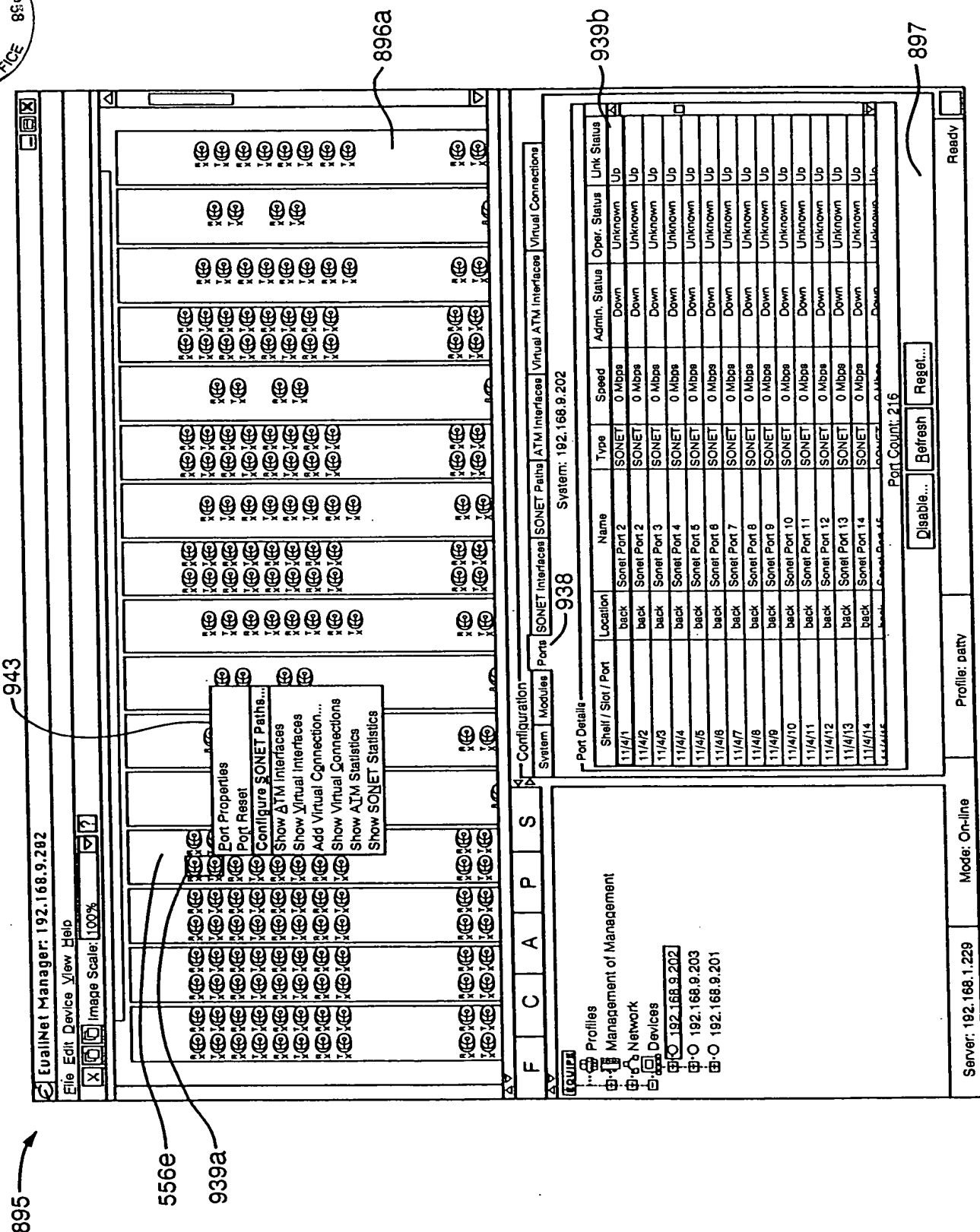


FIG. 5A



944

EvaiNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot 4 Port 1 Type OC12

944a

SONET Path Wizard

944b ☐ Configure a single concatenated path (STS-12c)

944c ☐ Configure

944d ☐ Custom Configuration

4

paths

STS-3c

OK Cancel

944r 944q

FIG. 5B

EvaiNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot 4

Port 1

Type OC12

SONET Path Wizard

☒ Configure a single concatenated path (STS-12c)

☐ Configure

☐ Custom Configuration

4

STS-3c

paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/4/1	Path1_11/4/1	1	STS-12c	Termin.	ATM		

Modify

Graphical Representation

Position

Width

1

STS-12c

944r

OK

Cancel

944q

FIG. 5C

FIG. 5D

EvaiNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot 4 Port 1 Type OC12

SONET Path Wizard

☒ Configure a single concatenated path (STS-12c)

☐ Custom Configuration

1 STS-12c

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/4/1	Path1_11/...	1	STS-12c	Termin.	ATM		

Modify OK Cancel

Graphical Representation

Position Width

1 STS-12c

FIG. 5E

Fig. 5F



EvailNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot 4 Port 1 Type OC12

Path Table

SONET Line	Path Name	Path Position	Path Width	Path Type	Service	Ingress Co...	Egress Co...
Shelf11/Sl...	Path1_11/...	1	3	2	1		
Shelf11/Sl...	Path2_11/...	4	3	2	1		

944p Modify Add Delete 945m

Graphical Representation

Position

1

4

Width

STS-3c

STS-3c

945e 945f

945

FIG. 5G

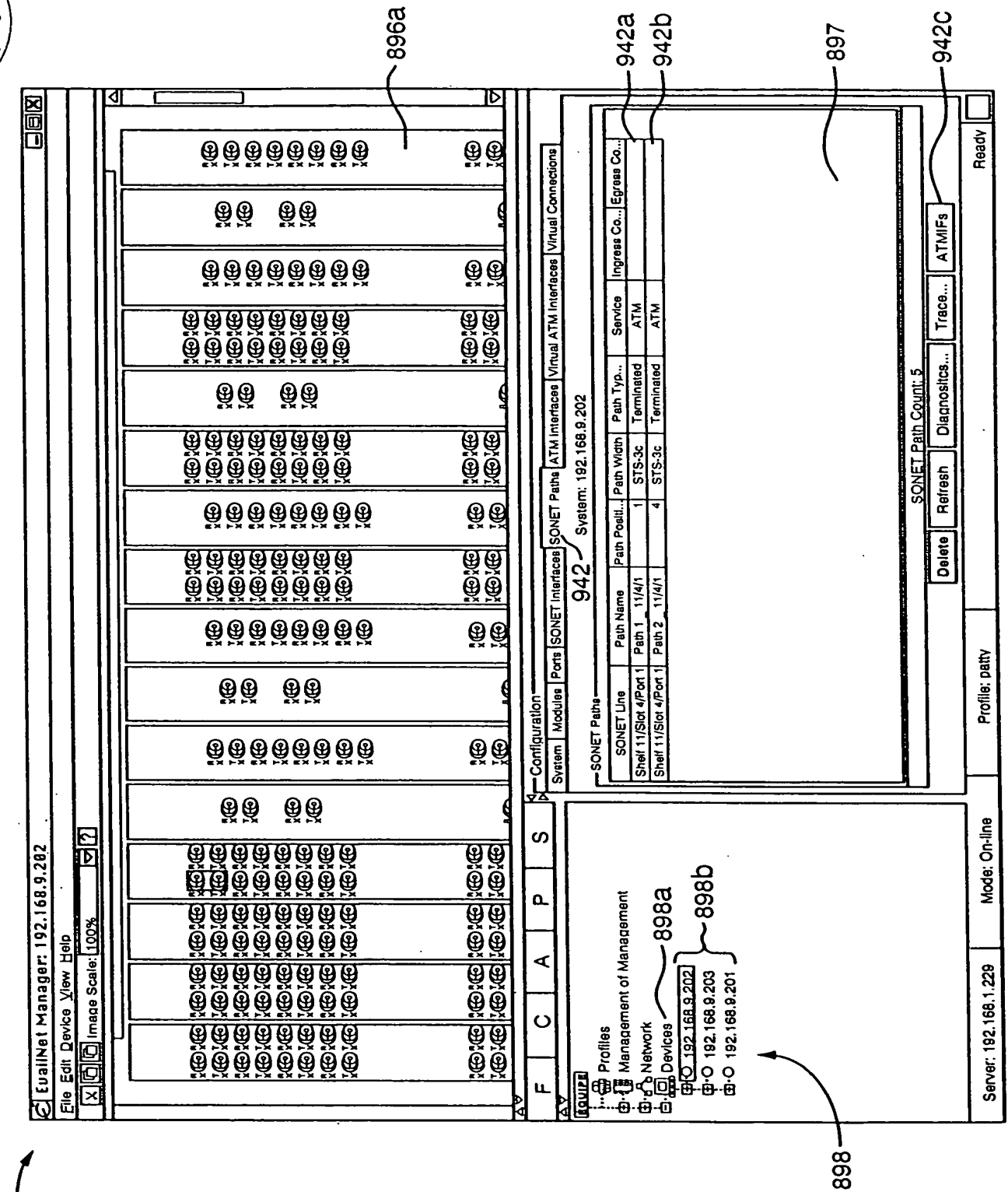


FIG. 5H



895

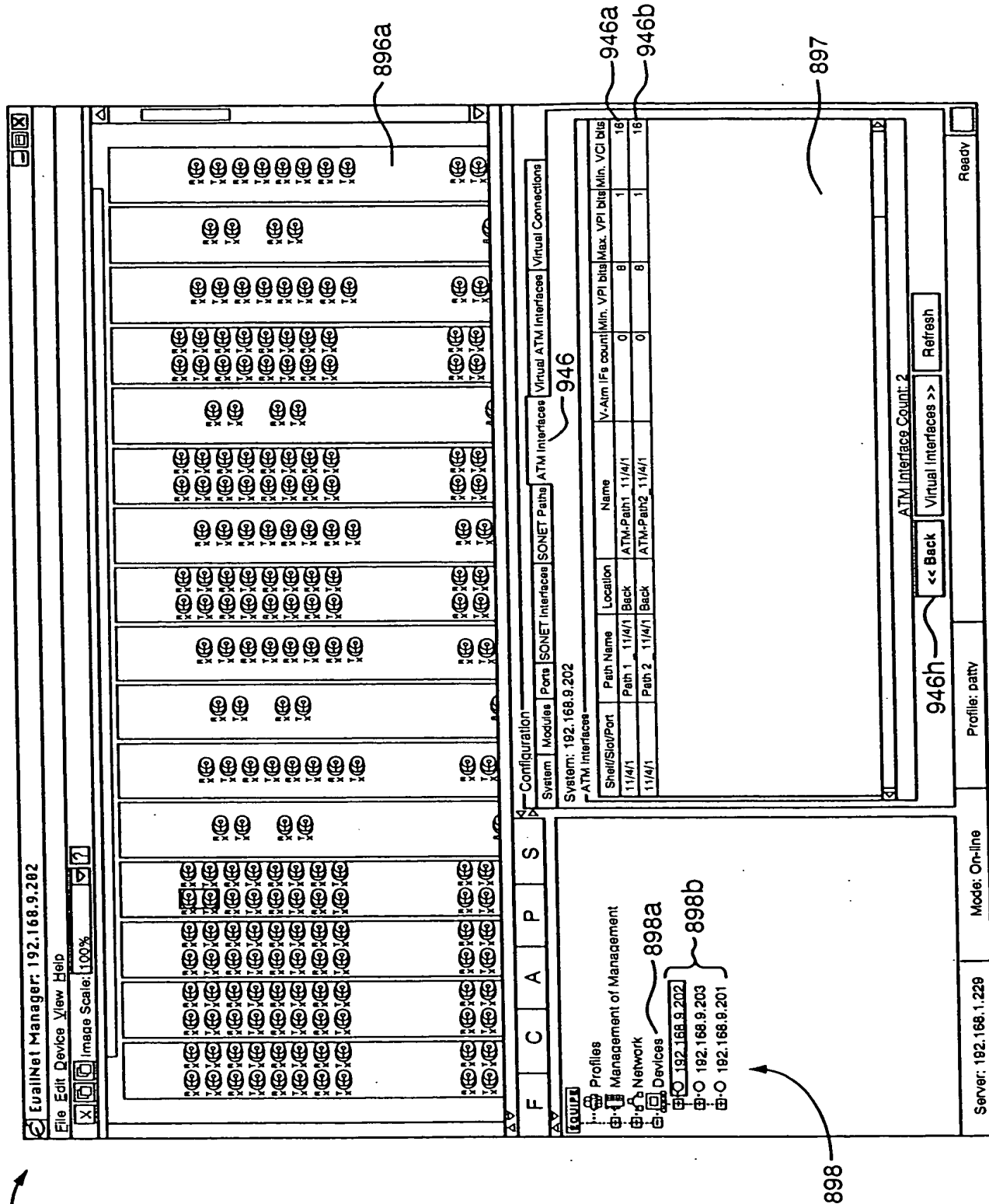


FIG. 51

895

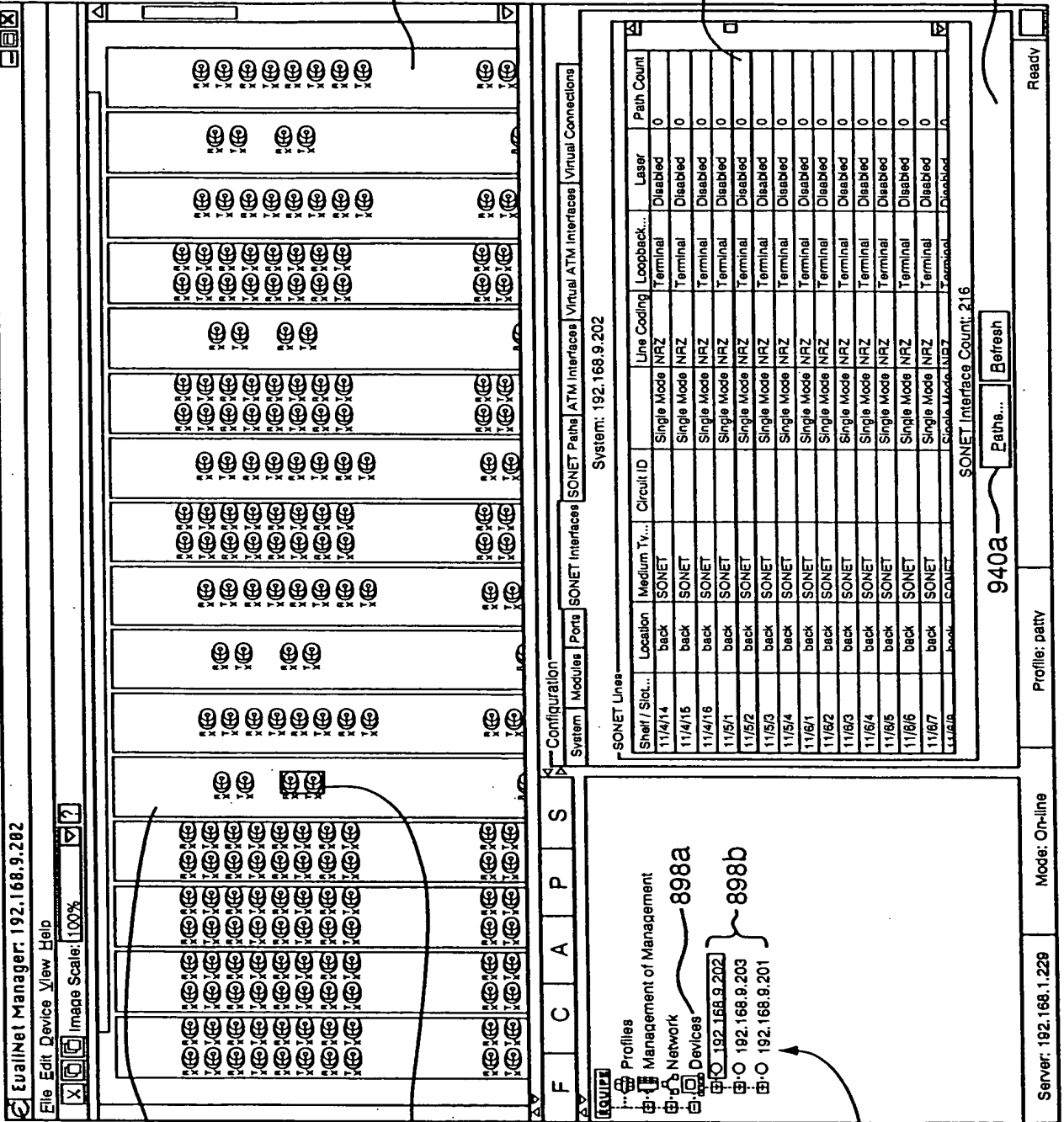


FIG. 5J

EvalNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot Port Type

SONET Path Wizard

☐ Configure a single concatenated path (STS-48c)

☐ Configure

☐ Custom Configuration

Ok Cancel

944b

944c

944d

944a

944

FIG. 5K

EvailNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot 5 Port 2 Type OC48

SONET Path Wizard

☒ Configure a single concatenated path (STS-48c)

☐ Configure

☐ Custom Configuration

4 paths

STS-12c

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/5/2	Path1_11/5/2	1	STS-48c	Termin.	ATM		

Modify

Graphical Representation

Position

Width

1

STS-48c

944a

944b

944c

944d

944g

944f

944e

944r

944q

FIG. 5L

EvailNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot Port Type

SONET Path Wizard

☒ Configure ☐ Custom Configuration ☐ Configure a single concatenated path (STS-48c)

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/5/2	Path1_11/...	1	STS-12c	Termin.	ATM		
11/5/2	Path2_11/...	13	STS-12c	Termin.	ATM		
11/5/2	Path3_11/...	25	STS-12c	Termin.	ATM		
11/5/2	Path4_11/...	37	STS-12c	Termin.	ATM		

Graphical Representation

Position: 1, 13, 25, 37

Width: STS-12c, STS-12c, STS-12c, STS-12c

FIG. 5M

EvailNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot 5 Port 2 Type OC48

SONET Path Wizard

Configure Custom Configuration Path Table

Configure

Path Name Path Posit. Path Wi. Path Ty. Servi. Ingress Conne. Egress Conne.

Path1_11/... 1 STS-48c Termin. ATM

Modify

Graphical Representation

Position Width

FIG. 5N

EvaiNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot

5

Port

2

Type

OC48

SONET Path Wizard

☐ Configure a single concatenated path (STS-48c)
 ☒

Configure

16

STS-3c

paths

☐ Custom Configuration

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/5/2	Path1_11/5/2	1	STS-3c	Termin.	ATM		
11/5/2	Path2_11/5/2	4	STS-3c	Termin.	ATM		
11/5/2	Path3_11/5/2	7	STS-3c	Termin.	ATM		
11/5/2	Path4_11/5/2	10	STS-3c	Termin.	ATM		
11/5/2	Path5_11/5/2	13	STS-3c	Termin.	ATM		
11/5/2	Path6_11/5/2	16	STS-3c	Termin.	ATM		
11/5/2	Path7_11/5/2	19	STS-3c	Termin.	ATM		

Modify

OK

Cancel

Graphical Representation

Position

1 4 7 10 13 16 19 22 25 28 31 34 37 40 43 45

Width

STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C STS-3C

FIG. 50

EvaiNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot

5

Port

2

Type

OC48

SONET Path Wizard

Configure a single concatenated path (STS-12c)

16

paths

STS-3C

▼

Configure

STS-3C

▼

Custom Configuration

Functions

Available SONET Paths

STS-3C

STS-12c

944i

Add>

<Remove

<<Clear

Allocated SONET Paths

STS-3C

STS-3C

STS-3C

STS-3C

STS-12C

944j

↑

↓

Path Table

SONET Line	Path Name	Path Position	Path Width	Path Type	Service Ingress Co...	Egress Co...
11/5/2	Path1_11/...	1	STS-3c	Terminated	ATM	▼
11/5/2	Path2_11/...	4	STS-3c	Terminated	ATM	▼
11/5/2	Path3_11/...	7		Terminated	ATM	▼

944p

Modify

Graphical Representation

Position

Width

1

4

7

10

22

34

STS-3C

STS-3C

STS-3

STS-3

STS-12C

STS-12C

944e

944f

944r

OK

Cancel

944q

FIG. 5P

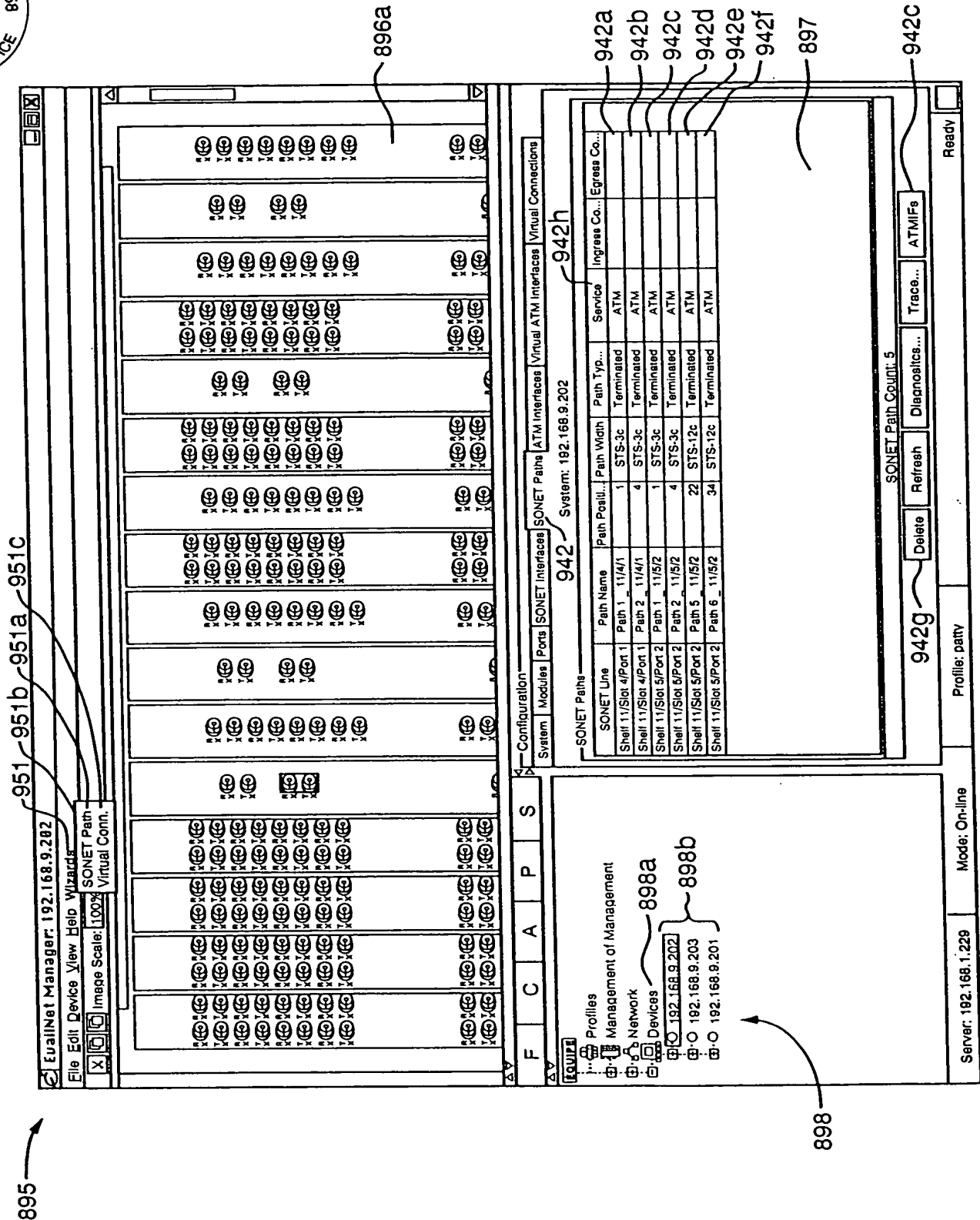


FIG. 5Q

895

EqualNet Manager: 192.168.9.202

File Edit Device View Help

Image Scale: 100%

896a

897a

897b

897d

947

959

Server: 192.168.1.229 Mode: On-line

Requesting Virtual ATM Interface: ATM-Path2_11/4/10

Configuration

System Modules Ports SONET Interfaces ATM Interfaces Virtual ATM Interfaces Virtual Connections

System: 192.168.9.202

Slot 2 Slot 3 Slot 4 Port 1 ATM-Path1 11/4 ATM-Path2 11/4 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8 Port 9 Port 10 Port 11 Port 12 Port 13

Profiles Management of Management Network Devices

192.168.9.202 192.168.9.203 192.168.9.201

Name Type Version Admin. St. PVC Count Signalin...

Delete... Refresh Virtual Connections>> Screenmark

FIG. 5S

950

Add U-ATM Interface - 192.168.9.202

Shelf/Slot/Port: 11/4/1 Path Name: Path2_11/4/1

Virtual ATM Interface Parameters

950d	Name	test1
950a	Connection Type	Direct Link
950b	Version	UNI Network 3.1
950c	Admin Status	Up

950e

OK Cancel

FIG. 5T

The screenshot shows the EvalNet Manager application. The top menu bar includes 'File', 'Edit', 'Device', 'View', and 'Help'. Below the menu is a toolbar with icons for file operations and device management. The main window is split into two panes. The left pane contains a tree view with the following structure:

- Profiles
- Management of Management
- Network
- Devices

The right pane displays the details for the selected device, '947a'. It shows the device's IP address as '192.168.9.202' and a list of ports: 'Port 1', 'Port 2', 'Port 3', 'Port 4', 'Port 5', 'Port 6', 'Port 7', 'Port 8', and 'Port 9'. The status bar at the bottom indicates the server IP is '192.168.1.229' and the mode is 'On-line'.

FIG. 5U

895

556d

941a

947C

EvalNet Manager: 192.168.9.202

File Edit Device View Help

Image Scale: 100%

Port Properties... 943
Port Reset...
Configure SONET Paths...
Show ATM Interfaces
Show Virtual Interfaces
Add Virtual Connection...
Show Virtual Connections
Show ATM Statistics
Show SONET Statistics

System: 192.168.9.202

Profiles
Management of Management
Network
Devices
192.168.9.203
192.168.9.201
192.168.9.202

F C A P S

System: 192.168.9.202

Shell 11
Slot 1
Slot 2
Slot 3
Slot 4
Slot 5
Port 1
Port 2
ATM-Path1 11/
ATM-Path2 11/
ATM-Path5 11/
ATM-Path5 11/
Port 3
Port 4
Slot 6
Slot 7
Slot 8

947a

947b

947d

947

Virtual ATM Interfaces

Name	Type	Version	Admin	Status	PVC Count	Sign
test3	Direct Link	UNI Network 3.1	Up	Up	0	End

Virtual Connections

<<back Add... Delete... Refresh Virtual Connections>>

Server: 192.168.1.229 Mode: On-line Profile: patty Ready

FIG. 5V



74/289

952

EvailNet Manager: 192.168.9.202 - Virtual Connection Wizard

Connection Topology

What type of connection do you want?

☒ Point to Point ☐ Point to Multipoint

Connection Type

Do you want to create a Virtual Path or a Virtual Channel?

☒ Virtual Path Connection (VPC) ☐ Virtual Channel Connection (VCC)

☐ Soft (SPVPC/SPVCC)

providing
the optical
on-ramp™

Welcome to
EQUIPE Communications

Next>> Cancel

952a

952b

FIG. 5W

953

EvailNet Manager: 192.168.9.202-Virtual Connection Wizard
✕

Source: 192.168.9.202
Destination: 192.168.9.202

953a End Point 1

- Slot 4
 - Port 1
 - ATM-Path1_11/4/1
 - ATM-Path2_11/4/1
 - test1
 - test2
 - Port 2
 - Port 3
 - Port 4

953b

End Point 1

- Slot 3
 - Port 1
 - test3
 - Port 2
 - ATM-Path1_11/5/2
 - ATM-Path2_11/5/2
 - ATM-Path5_11/5/2

953c

953d

953e Connection Parameters

Connection Name:

Admin Status: 953h

Customer Name:

953f End Point 1 Parameters:

VPI: ☒ Use Any VPI Value 953k

VCI: ☐ Use Any VCI Value 953o

Transmit Traffic Descriptor:

Receive Traffic Descriptor:

☐ Use the same Traffic Descriptor for both Transmit and Receive

953g End Point 2 Parameters:

VPI: ☒ Use Any VPI Value 953l

VCI: ☐ Use Any VCI Value 953p

Transmit Traffic Descriptor:

Receive Traffic Descriptor:

☐ Use the same Traffic Descriptor for both Transmit and Receive 953t

953u <<Back
953w Finish
953v Cancel

FIG. 5X



76/289

956

NEW TRAFFIC
DESCRIPTOR

NAME:

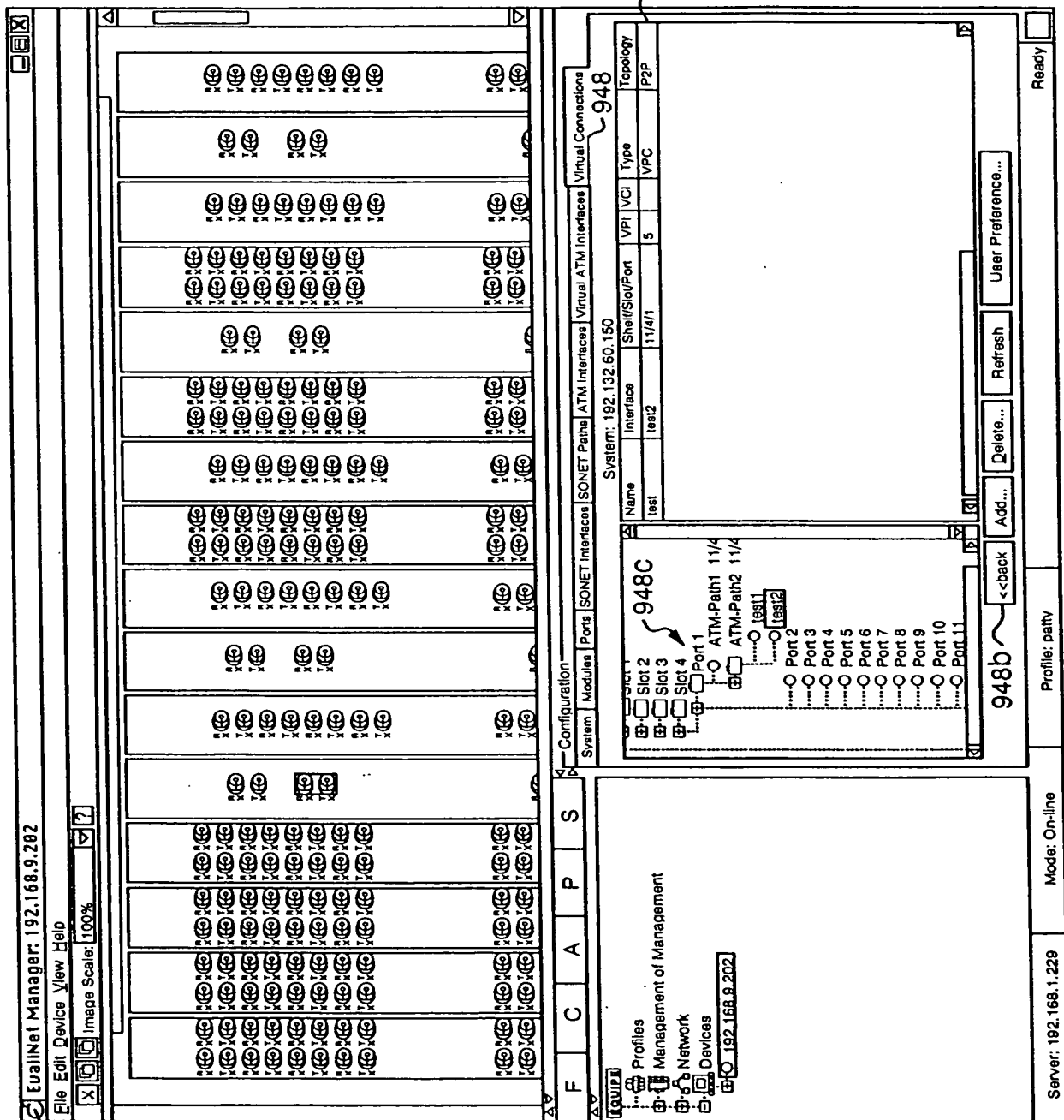
QoS CLASS: ▼

TYPE: ▼

OK

CANCEL

FIG. 5Y



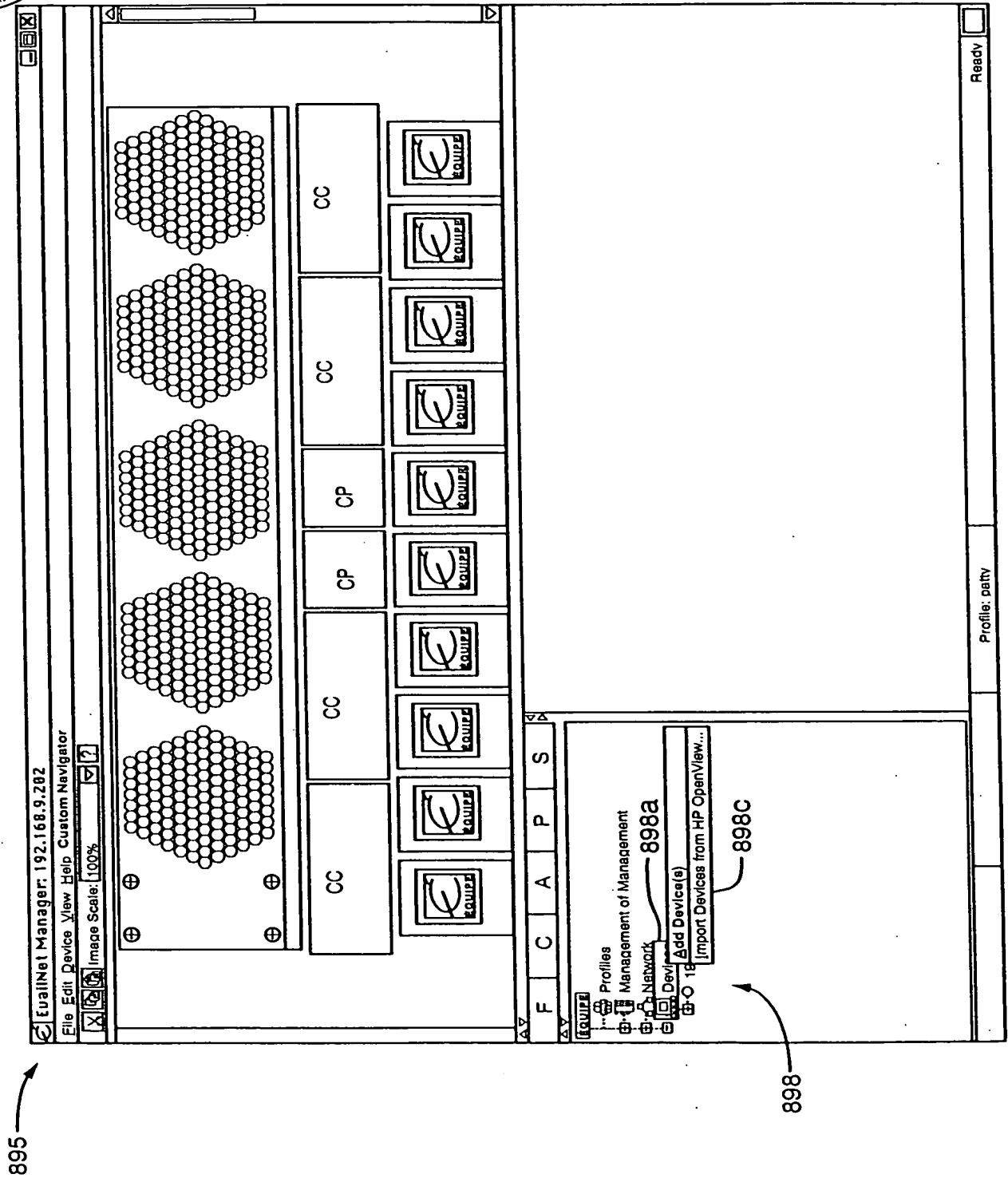


FIG. 6A

FIG. 6B is a screenshot of a Windows-style dialog box titled "AddDeleteDeviceDlg". The dialog box contains the following elements:

- A text input field labeled "Enter device to add" (898e) containing the IP address "192.168.9.201".
- A checkbox labeled "Manage device in on-line mode" (898k) which is currently unchecked. A label "898l" points to this checkbox.
- An "Add" button (898f) located to the right of the checkbox.
- A "Device List" section (898d) containing a list box labeled "On-Line Device" (898g). The list box is currently empty.
- Three buttons at the bottom: "OK", "Cancel", and "Delete".

FIG. 6B

FIG. 6C is a screenshot of the same "AddDeleteDeviceDlg" dialog box, but in a different state. The elements are:

- The "Enter device to add" text input field is now empty.
- The "Manage device in on-line mode" checkbox (898k) remains unchecked.
- The "Add" button is still present.
- The "Device List" section (898d) now contains one entry in the "On-Line Device" list box (898g). The entry consists of an unchecked checkbox (898m) followed by the IP address "192.168.9.201".
- The "OK", "Cancel", and "Delete" buttons remain at the bottom.

FIG. 6C



895

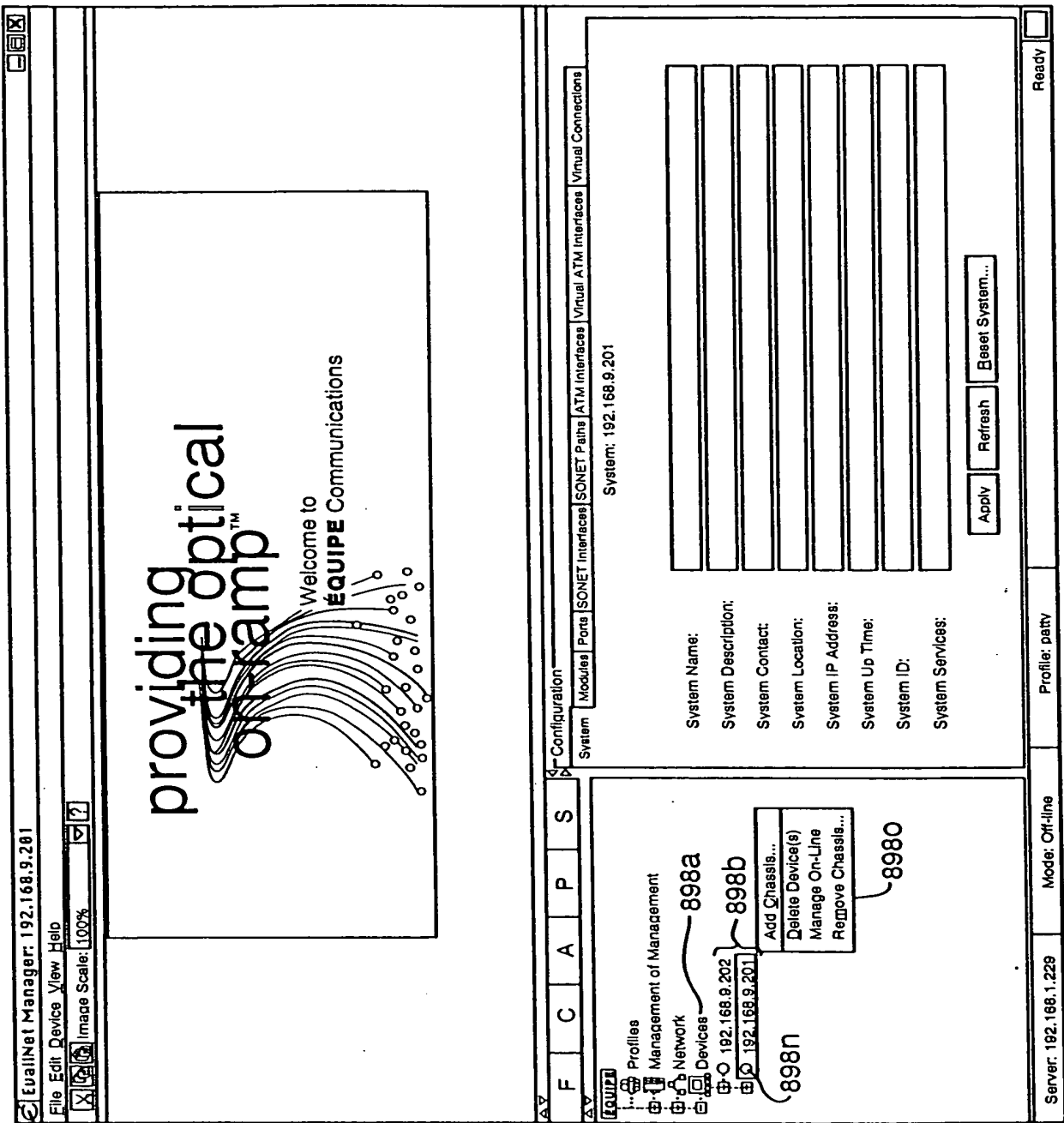


FIG. 6D

895

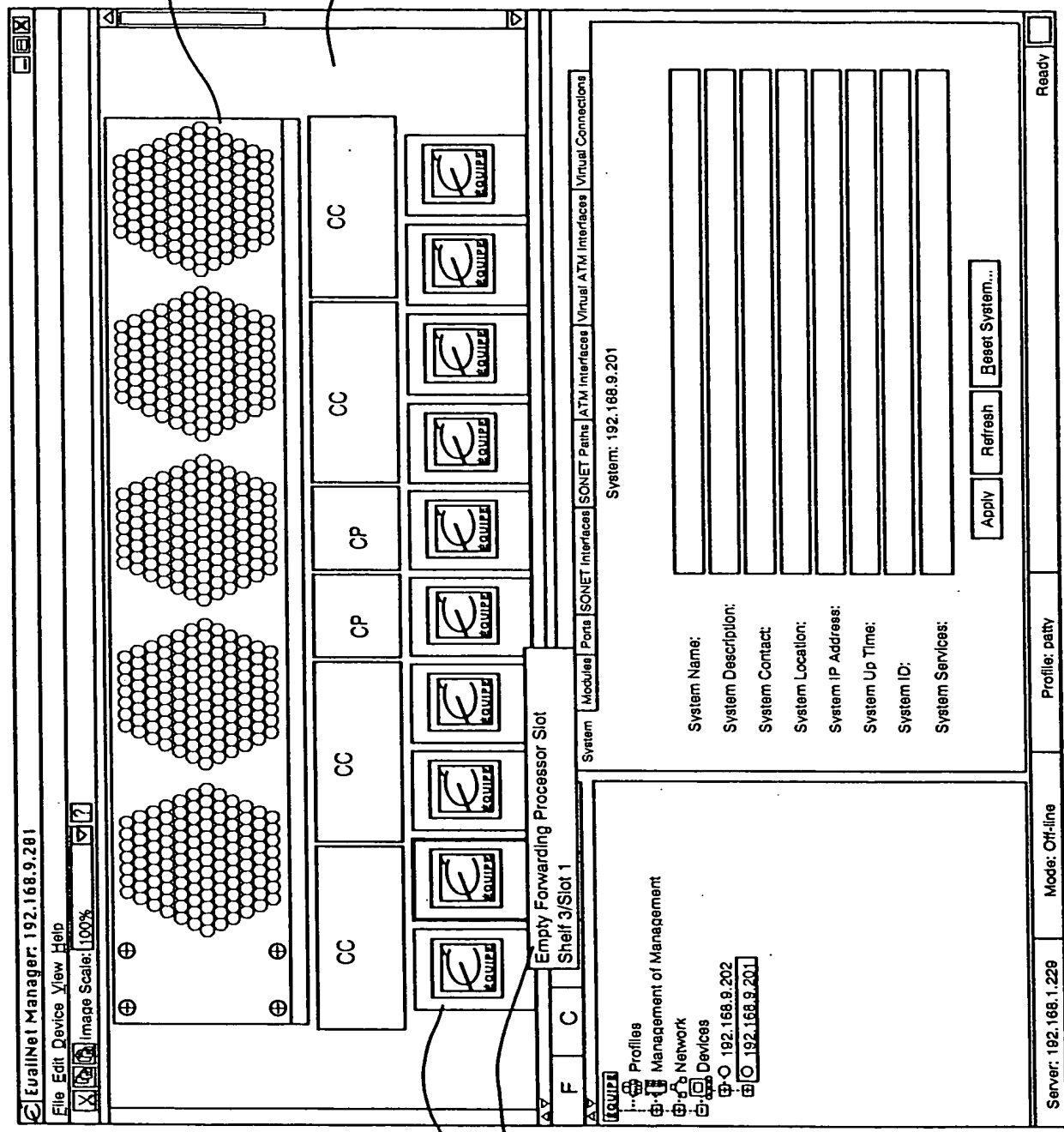
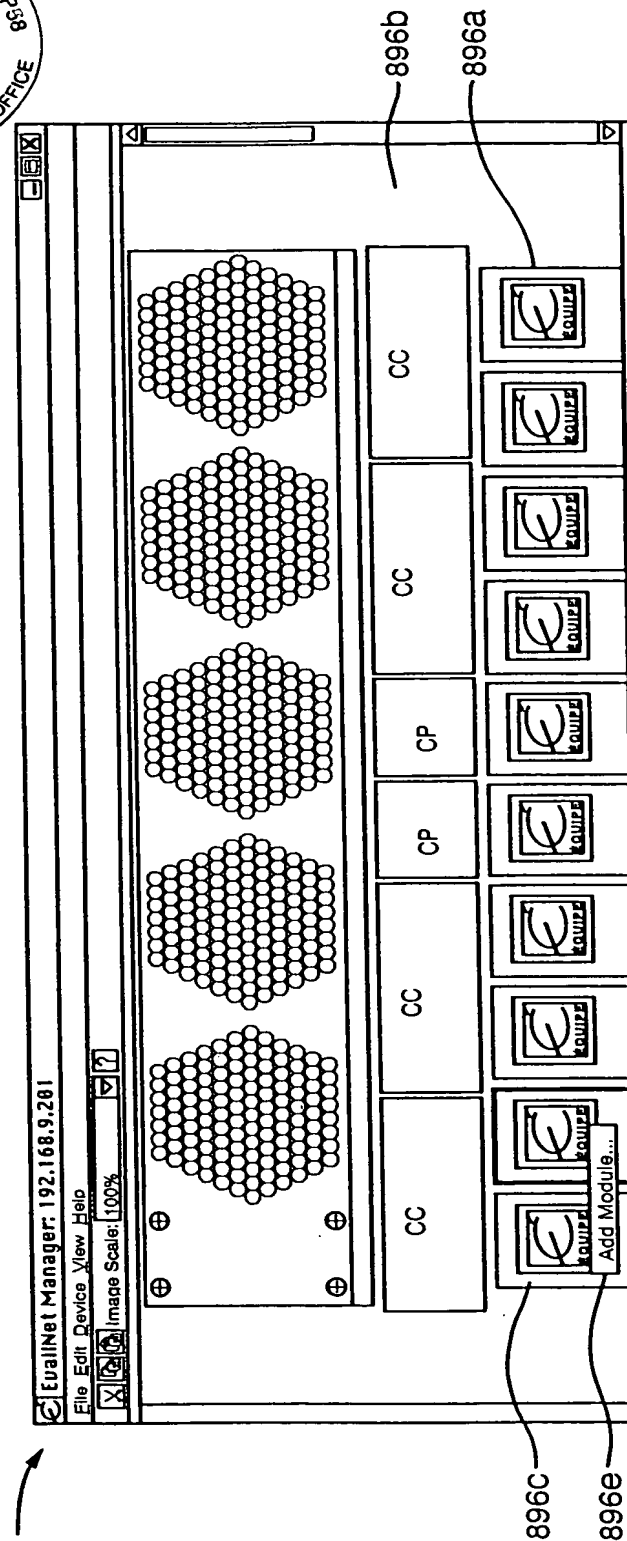


FIG. 6E

895



Configuration

System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections

System: 192.168.9.201

System Name:

System Description:

System Contact:

System Location:

System IP Address:

System Up Time:

System ID:

System Services:

Apply Refresh Reset System...

Ready

FIG. 6F

895

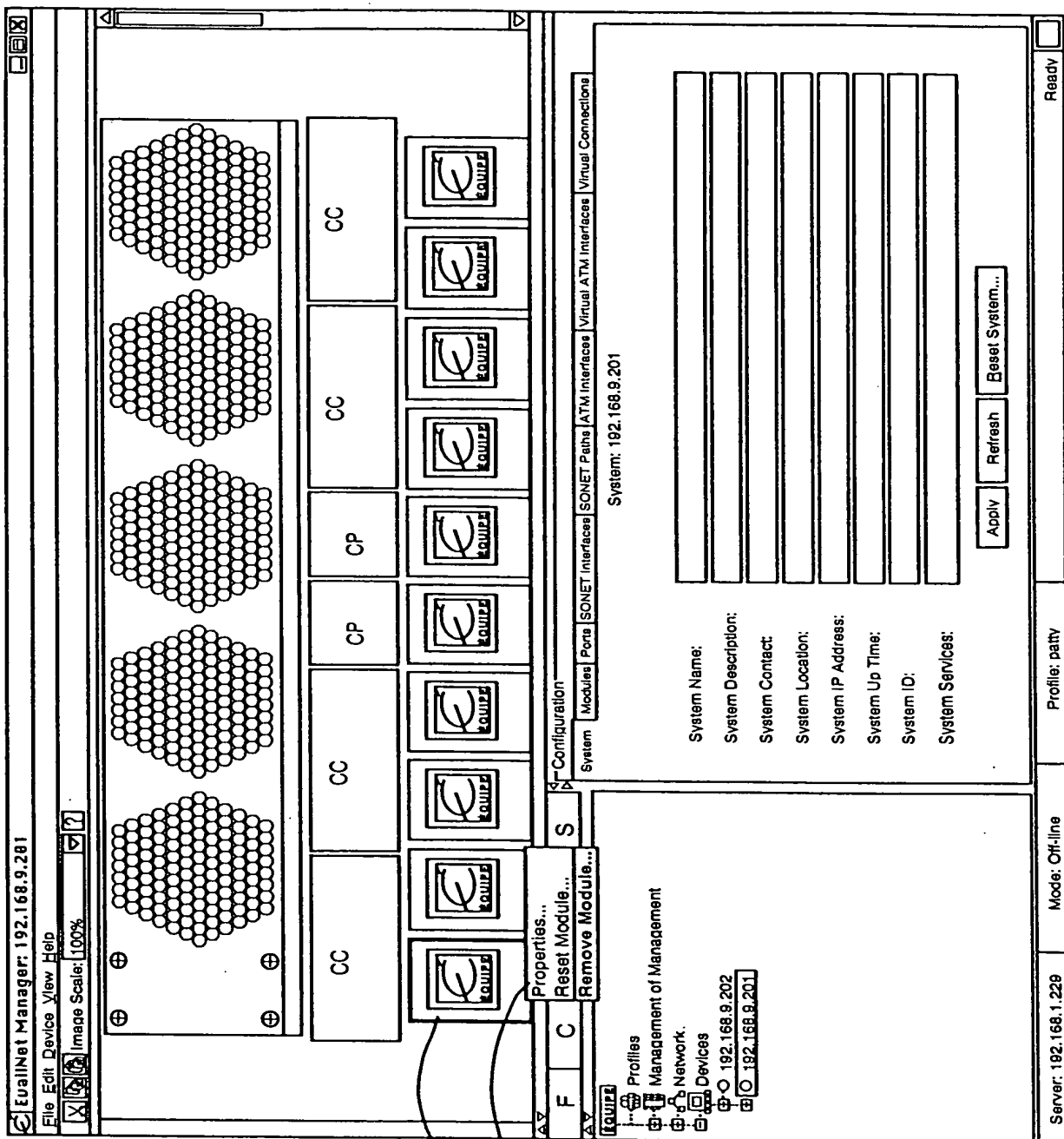
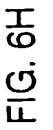


FIG. 6G



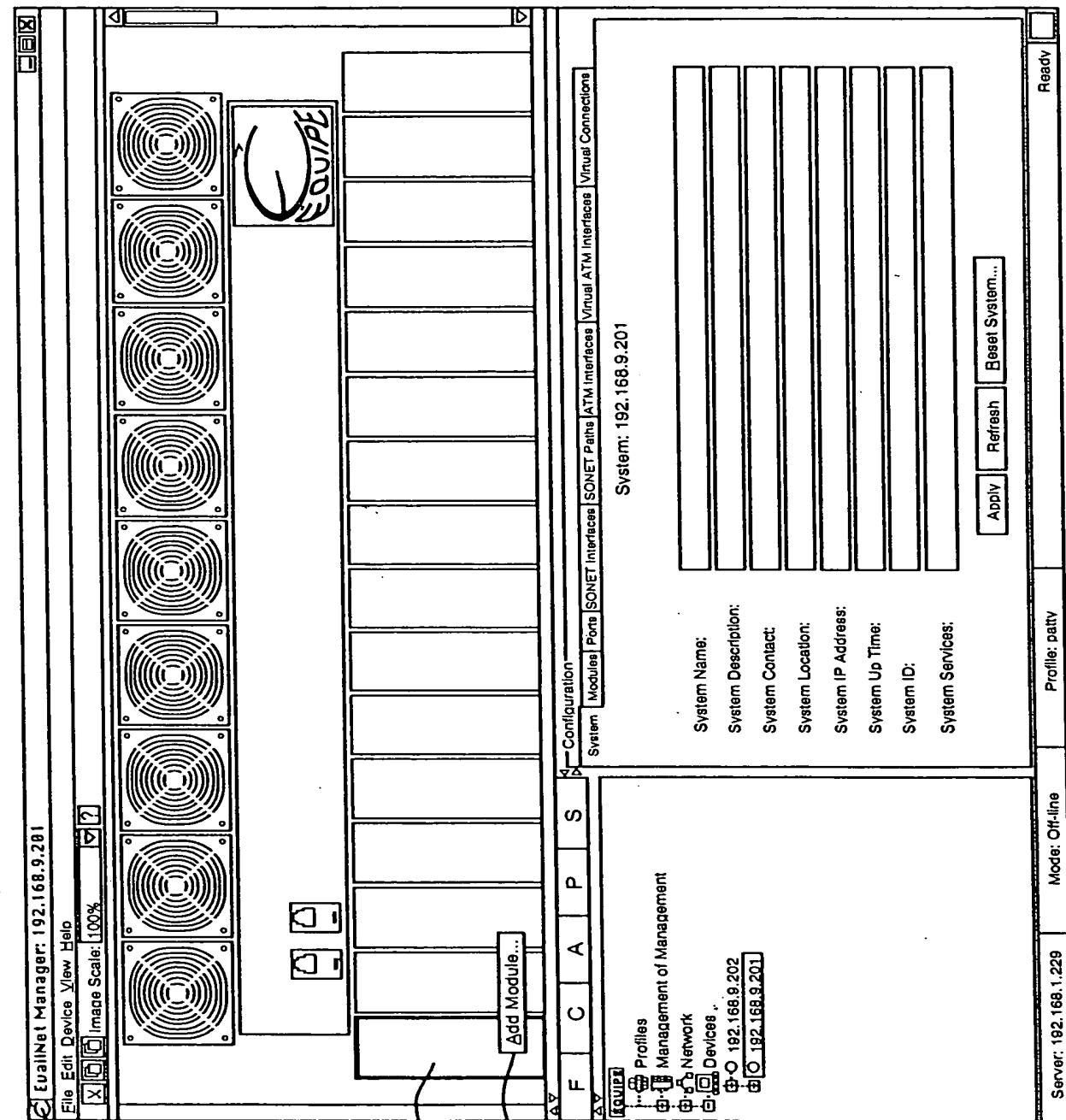


FIG. 6I

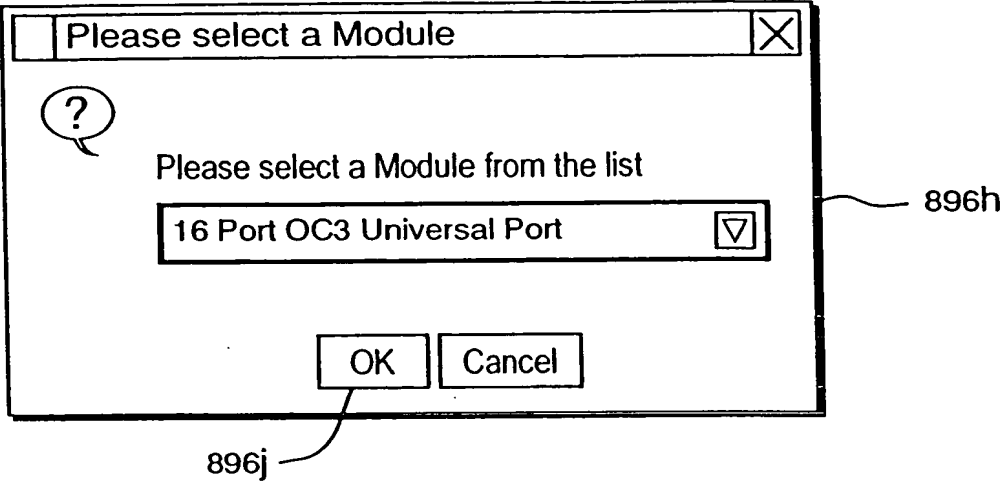


FIG. 6J

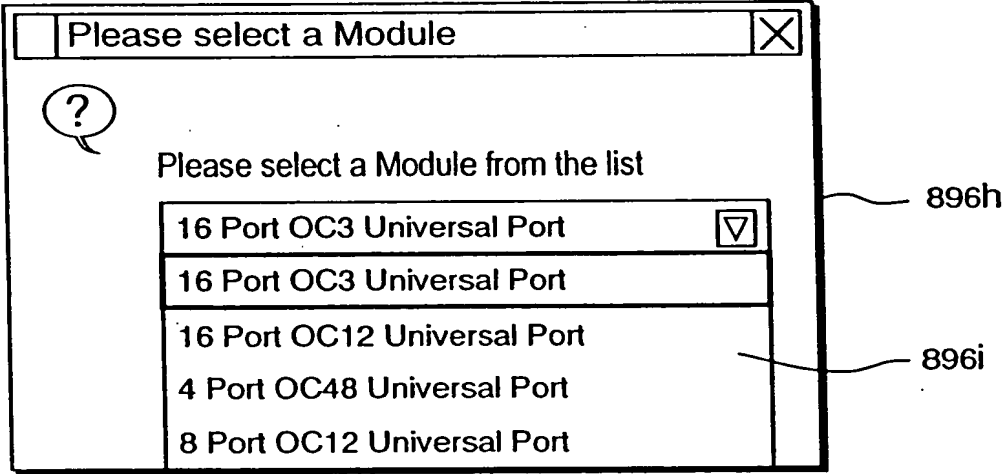
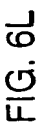


FIG. 6K



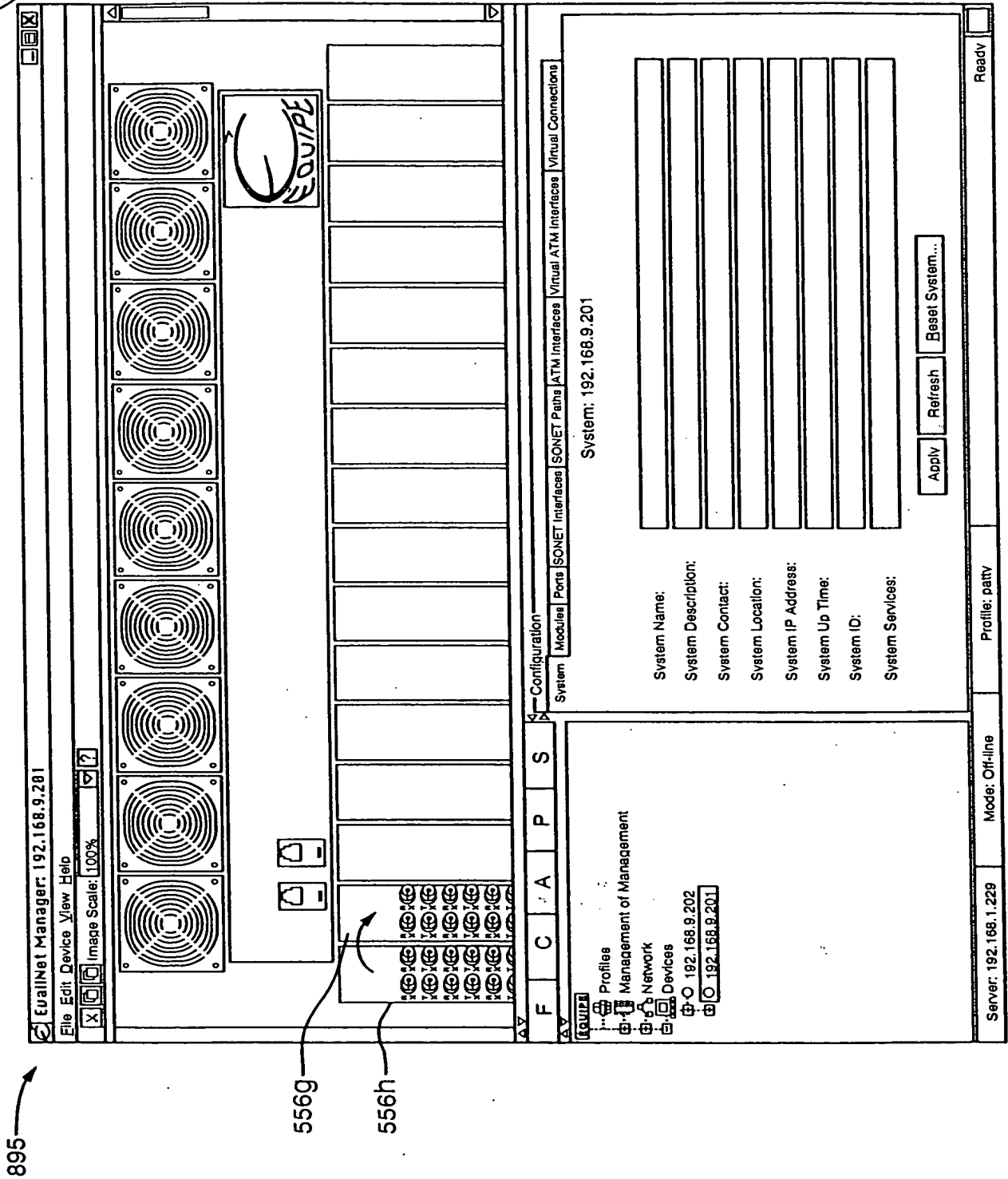
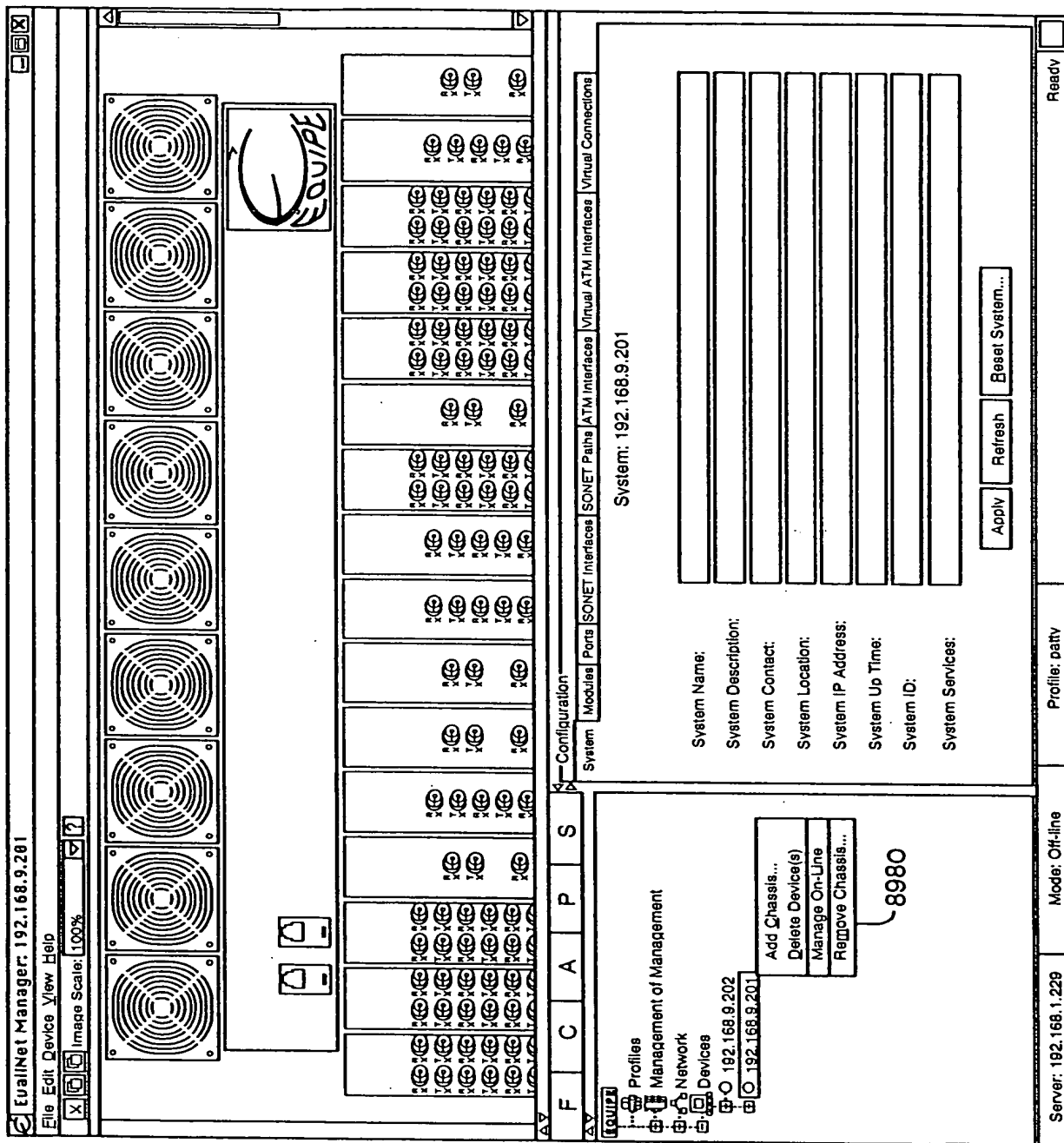


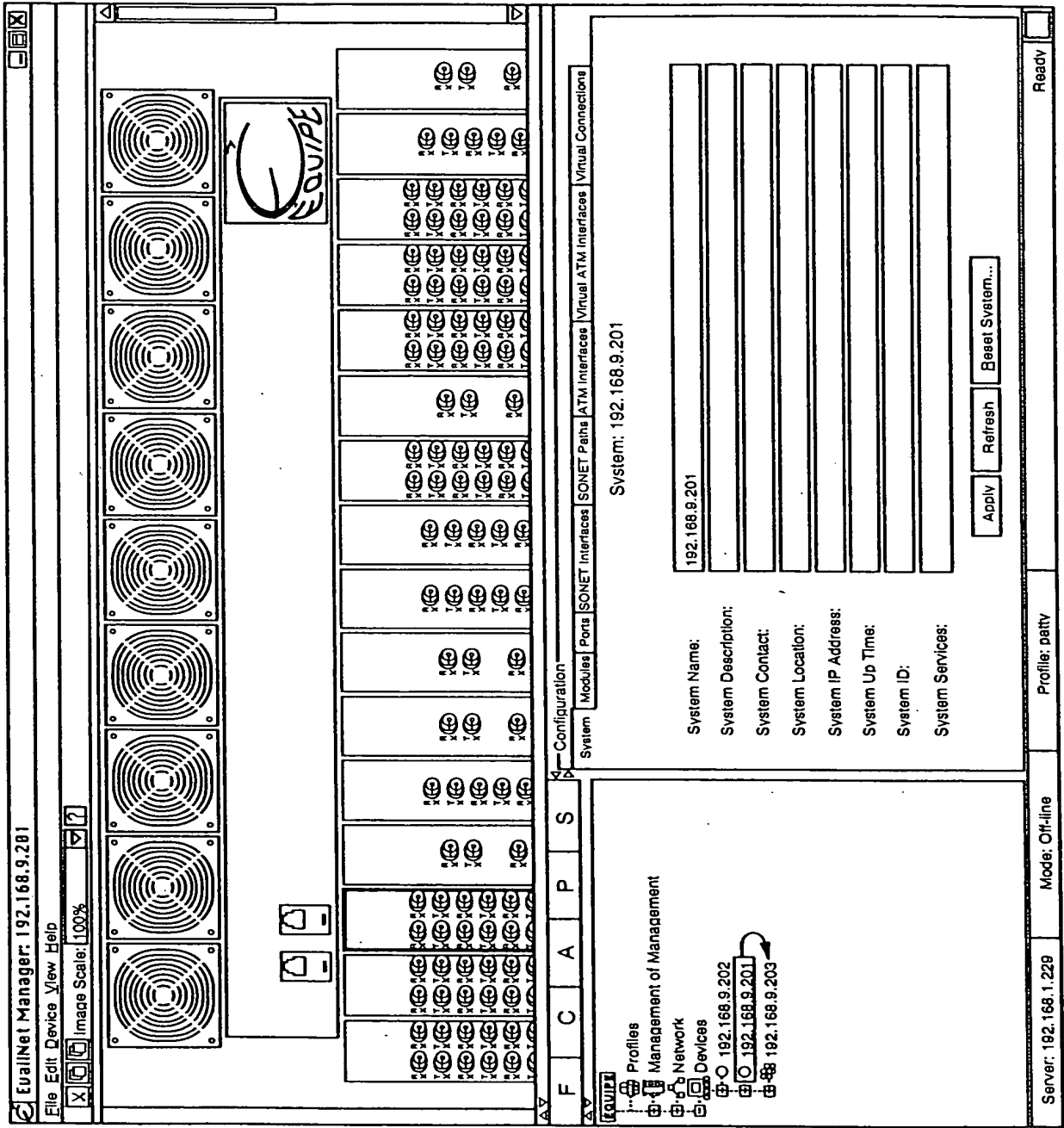
FIG. 6M

895



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FIG. 6N



895-

EvaluNet Manager: 192.168.9.202
 File Edit Device View Help
 Image Scale: 100%

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CC

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CC

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FIG. 6D

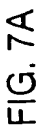


FIG. 7A



93/289

900

EvailNet Manager: Fault - Event Summary

System: 192.132.65.150

System	Event	Event Number	Description
1.1.55.6	Fan OverTemp	44	"Fan marginally functioning"
1.1.55.7	New Board Ins...	75	"New board inserted"

OK

FIG. 7B

94/289

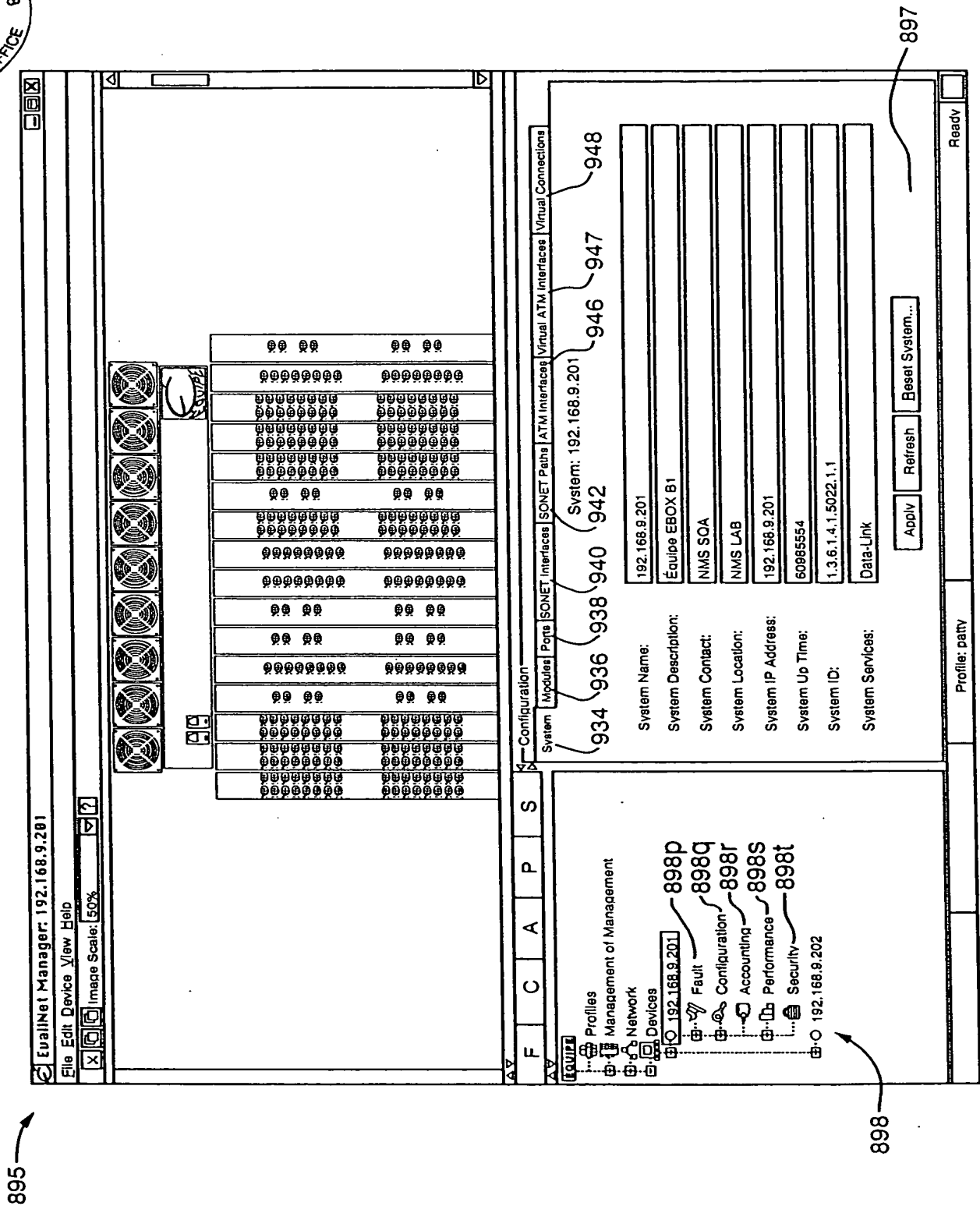
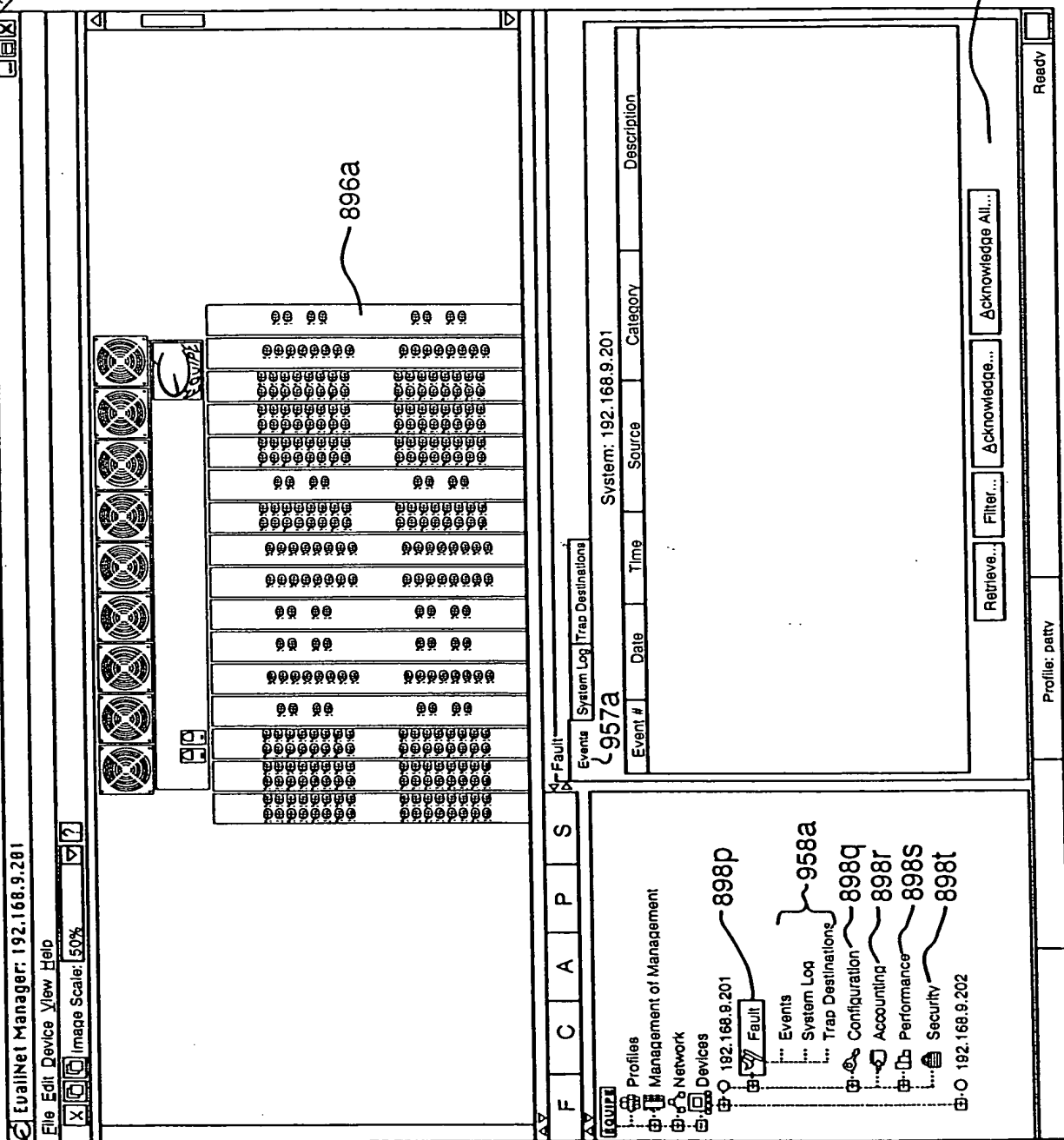
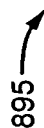


FIG. 7D





895

EvalNet Manager: 192.168.9.201

File Edit Device View Help

Image Scale: 50%

896a

897

898p

898q

898r

898s

898t

F C A P S

AV

AV

System Log Trap Destinations

System: 192.168.9.201

957b

Event #	Date	Time	Source	Category	Description
1	11/5/99	10:16:38AM	192.132.60.150	SNMP	Logical Port #5 created on Slot #1 Physical Port #2
2	11/5/99	10:20:12AM	192.132.60.150	SNMP	Logical Port #6 created on Slot #1 Physical Port #3

Retrieve Log... Next Previous Clear Log...

Ready

FIG. 7F



895

EvalNet Manager: 192.168.9.201

File Edit Device View Help

Image Scale: 50%

896a

897

F C A P S

Events System Log Trap Destinations

System: 192.168.9.201

System	Port	Status
168.23.22.1	162	Enabled
162.77.22.2	162	Disabled
144.55.2.22	1600	Enabled

Add... Delete... Refresh

Ready

Profiles

Management of Management

Network

Devices

192.168.9.201

Fault

Events

System Log

Trap Destinations

Configuration

Accounting

Performance

Security

192.168.9.202

898p

898a

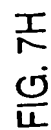
898q

898r

898s

898t

FIG. 7G





895

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%

896a

897

Ready

Profile: party

ATM Protocol

System: 192.168.9.201

959

PNNI Cache

Maximum Path (per node):

Maximum Entries (nodes):

Timer Frequency (seconds):

Age Out (seconds):

Recently Referenced (seconds):

PNNI Node

Domain Name

Admin. Status

ATM Address

Node Level

Add...

Delete

Edit...

Apply

Cancel

958c

958d

958e

958b

958r

958s

958t

Profiles

Management of Management

Network

Devices

192.168.9.201

Fault

Configuration

Service

Virtual Connections

Accounting

Performance

Security

192.168.9.202

898p

898q

898r

898s

898t

FIG. 71

895 ↗

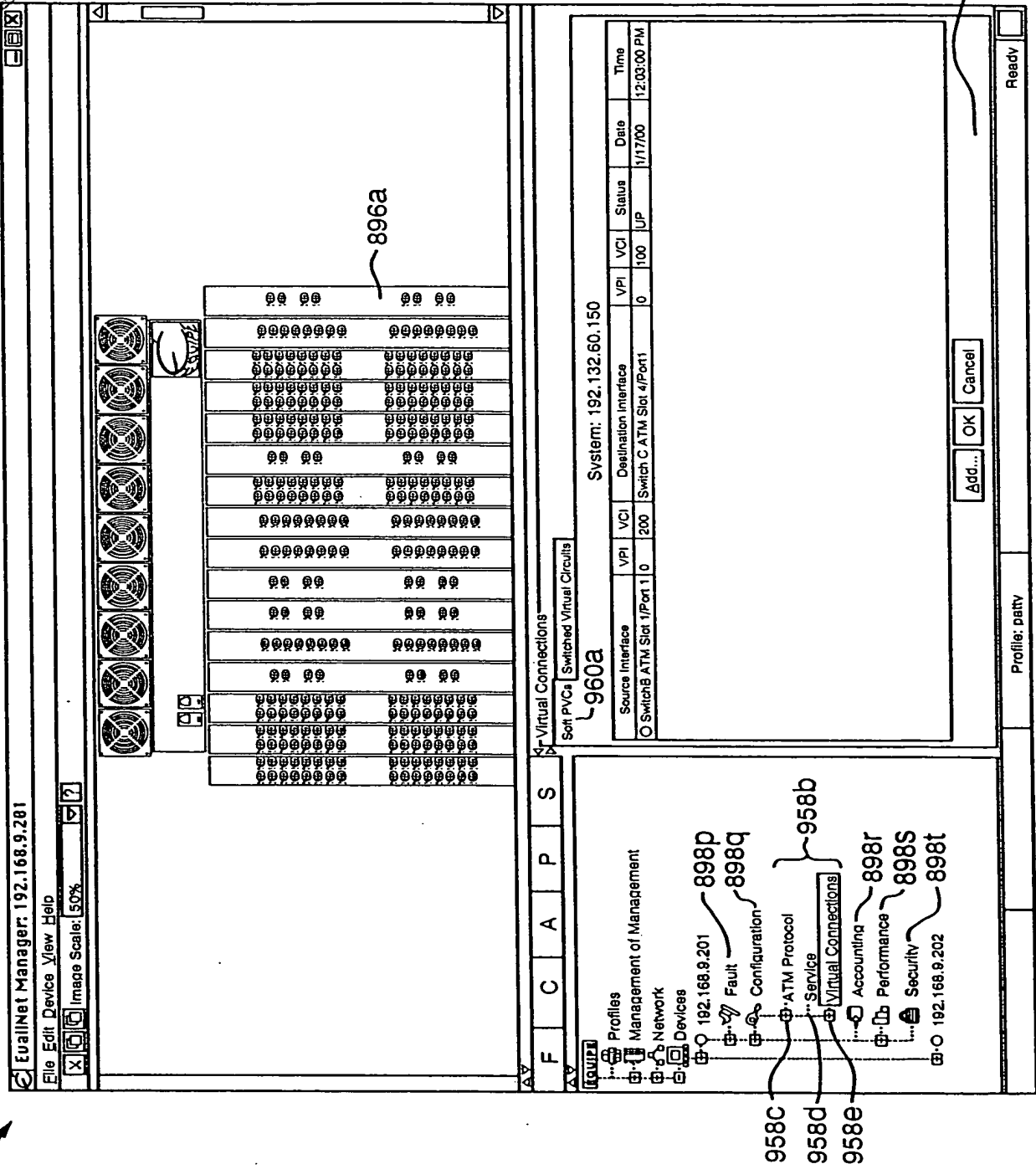


FIG. 7J

895

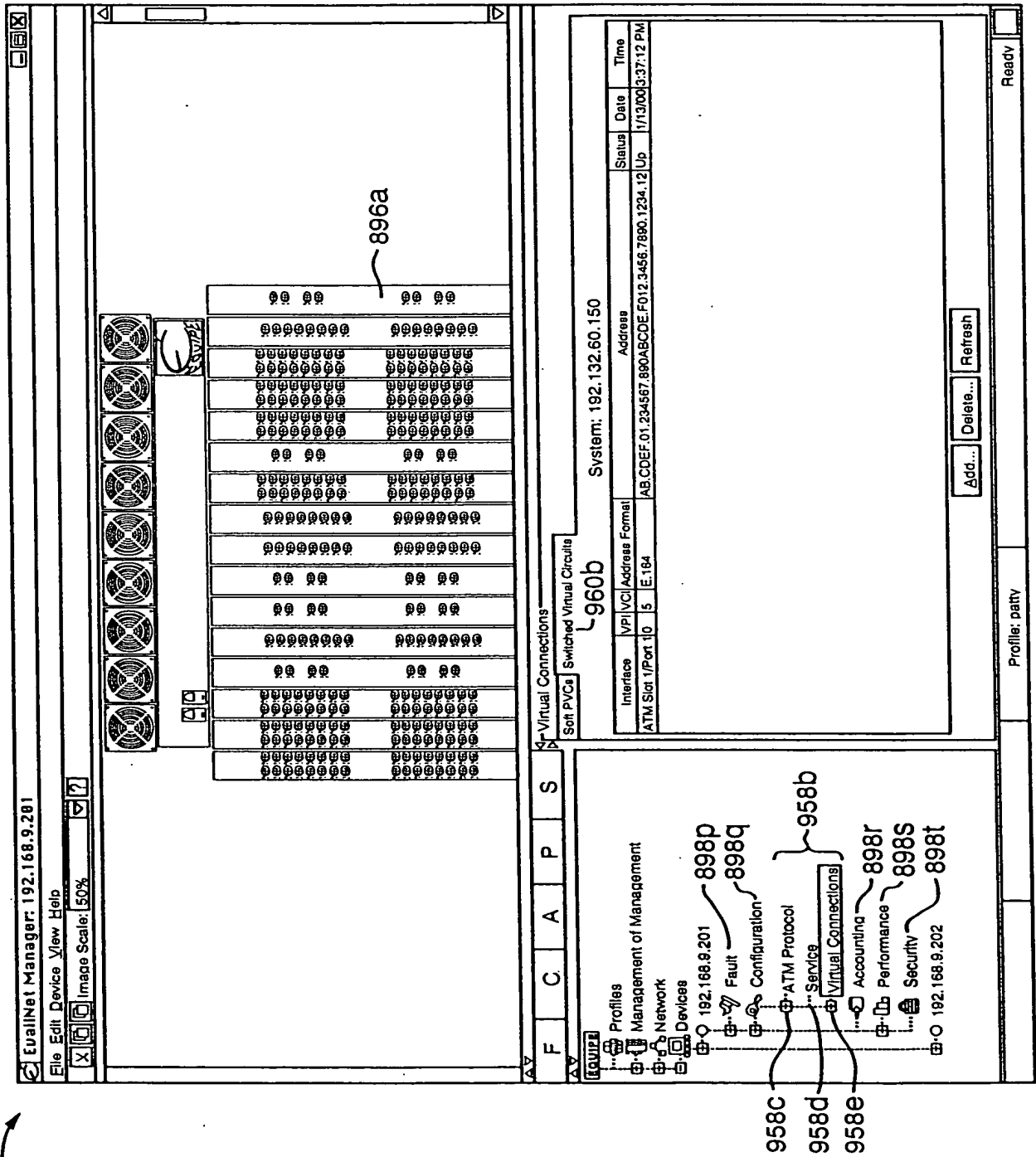


FIG. 7K

FIG. 7L

895

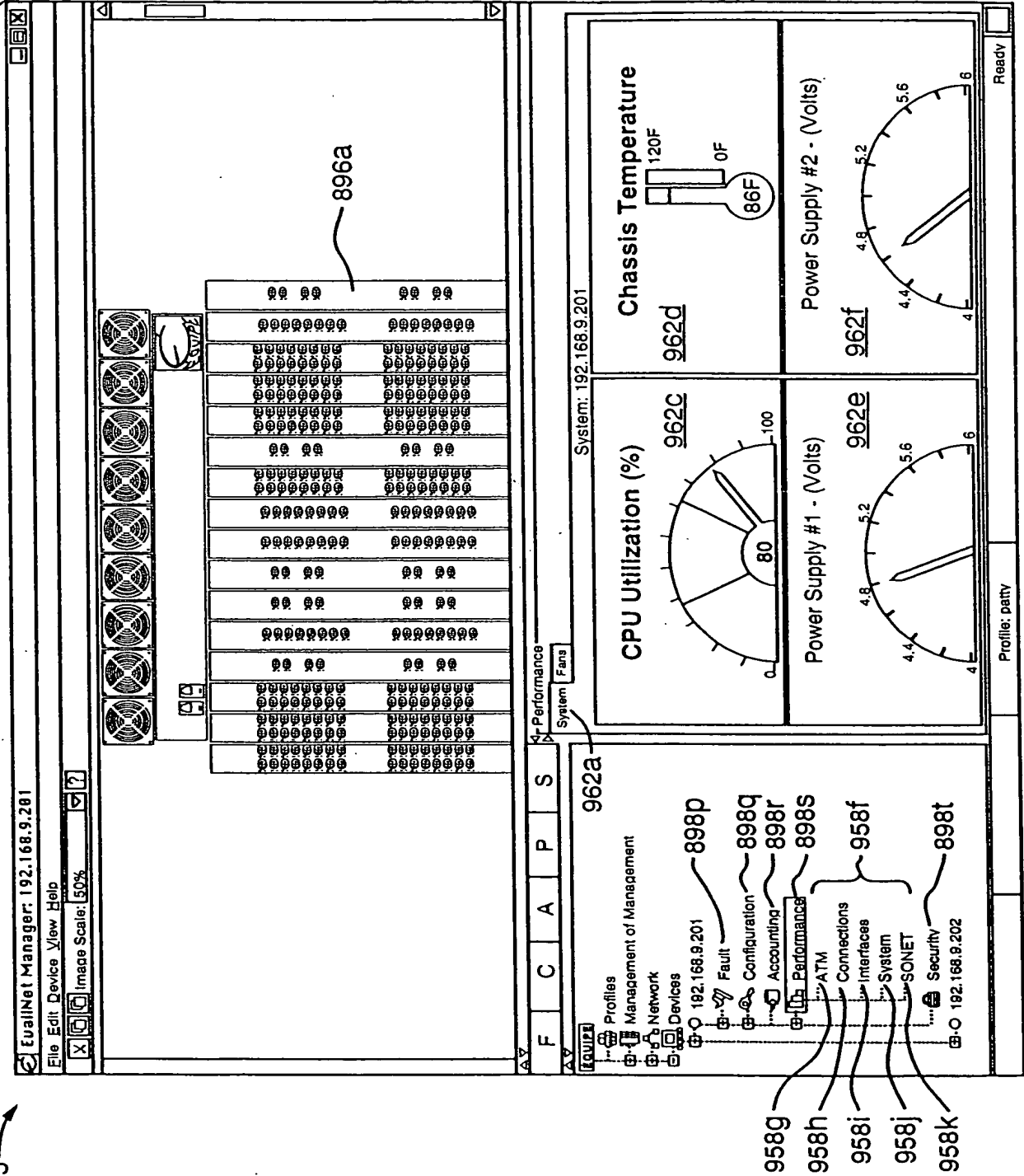


FIG. 7M

895

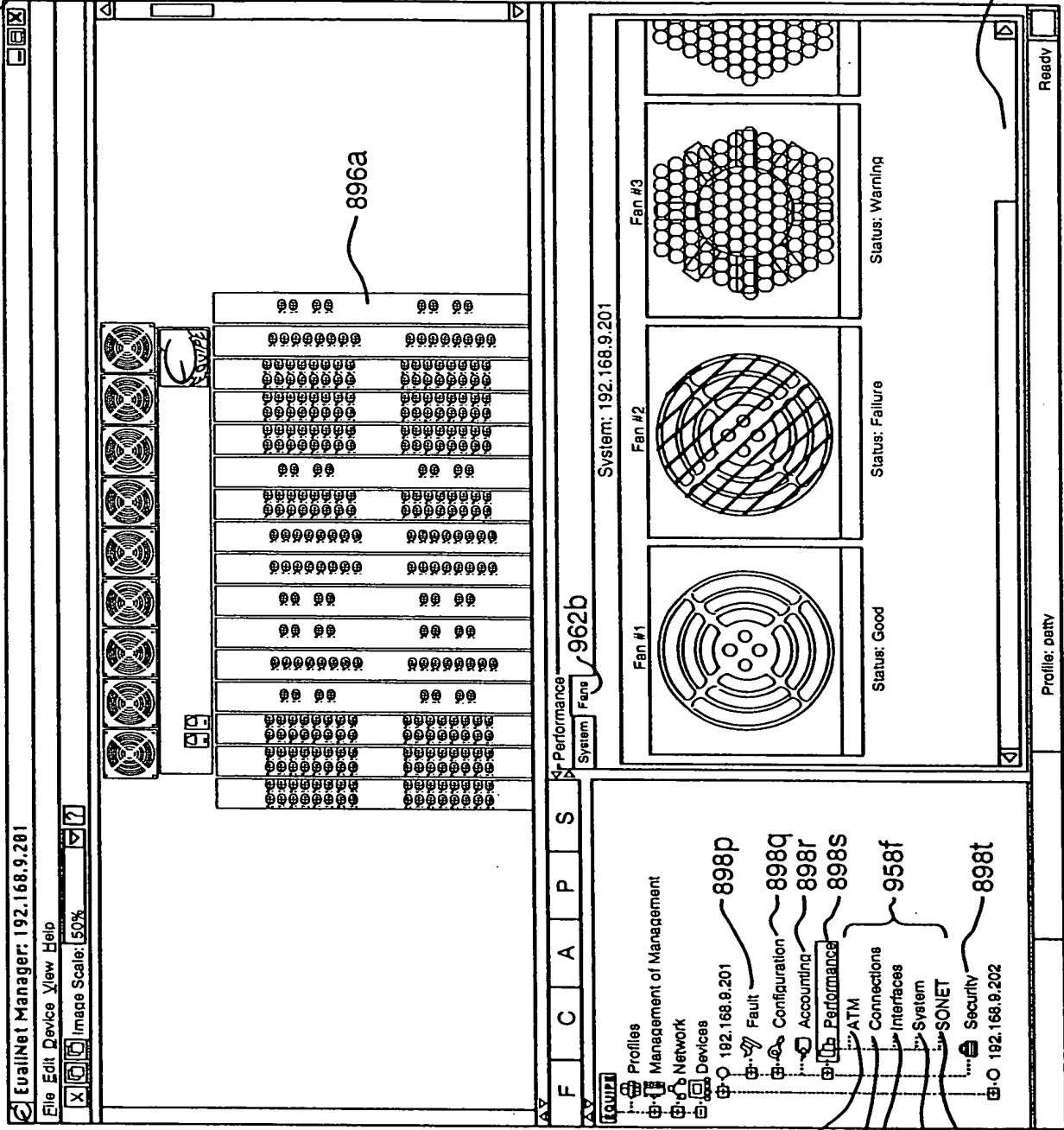


FIG. 7N

895

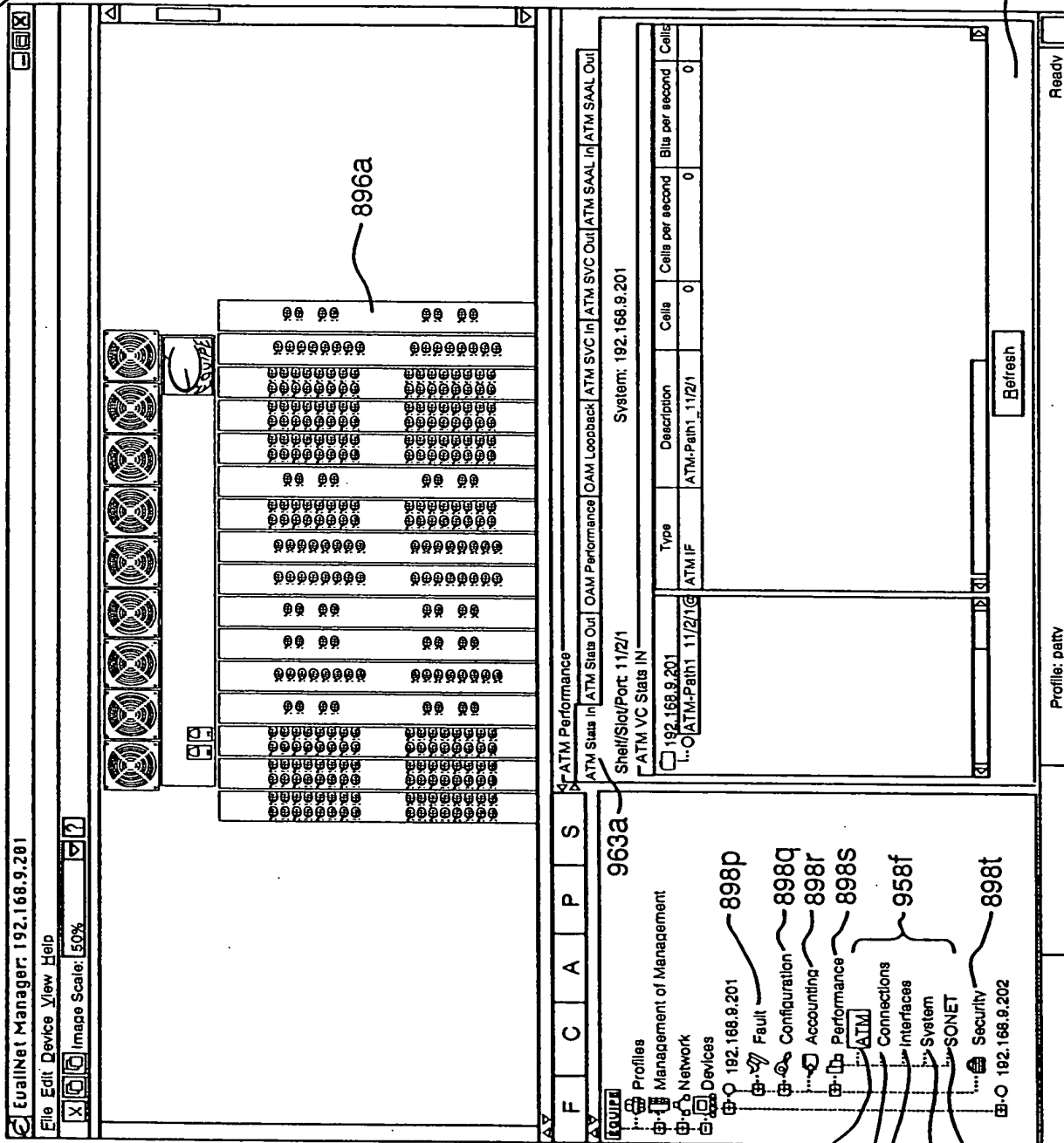


FIG. 70

895

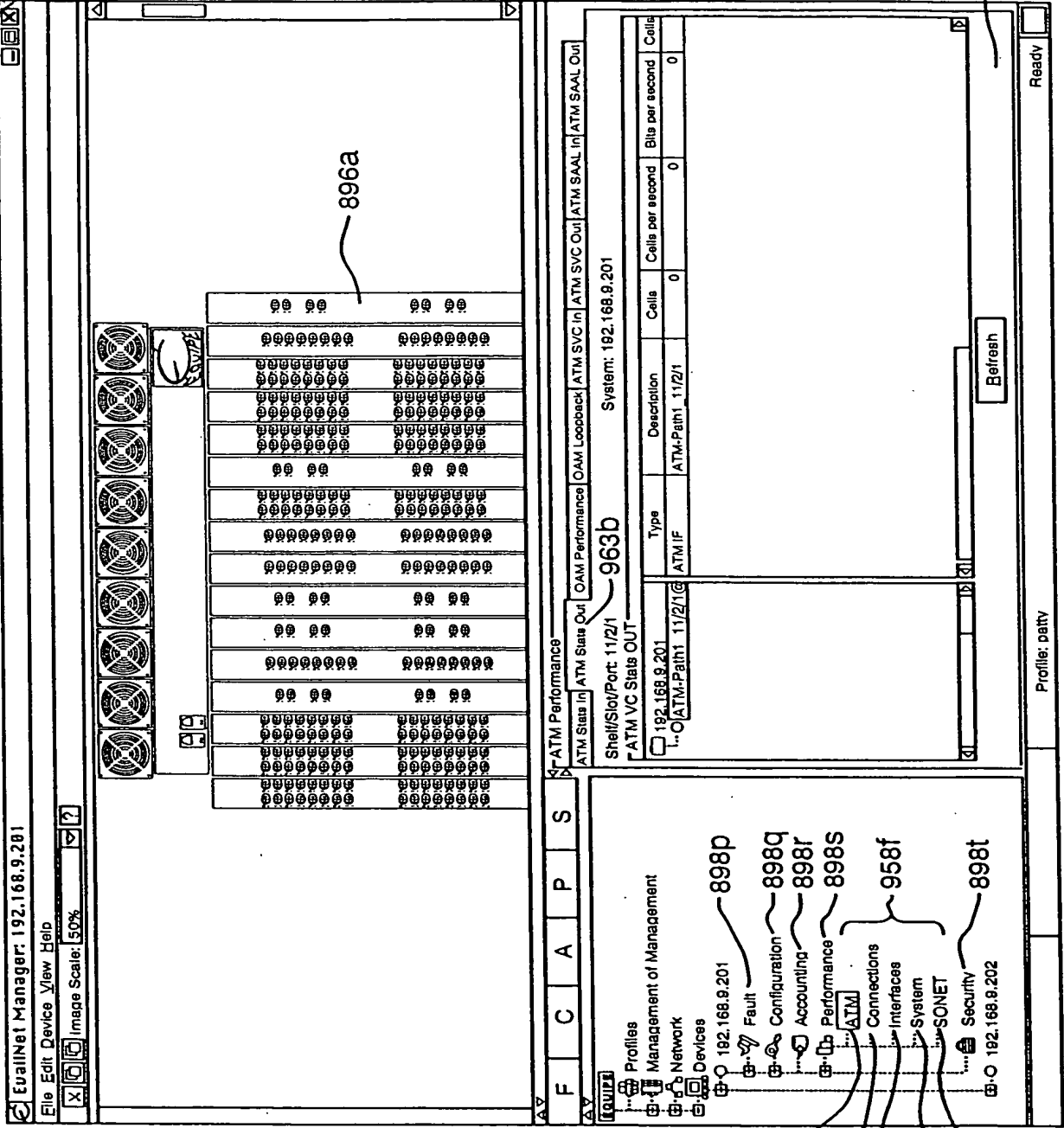
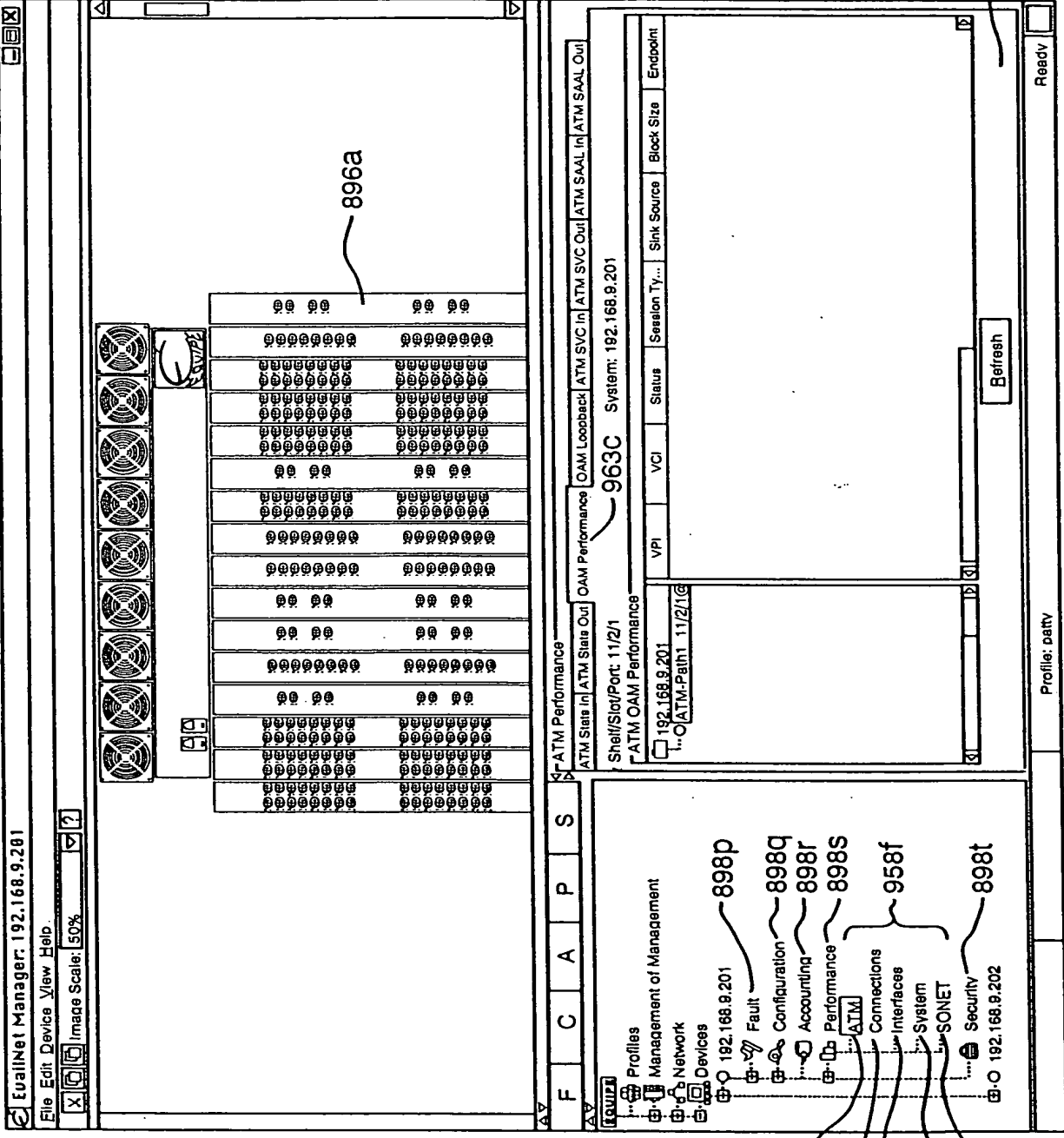


FIG. 7P



895



896a

897

FIG. 7Q



109/289

895

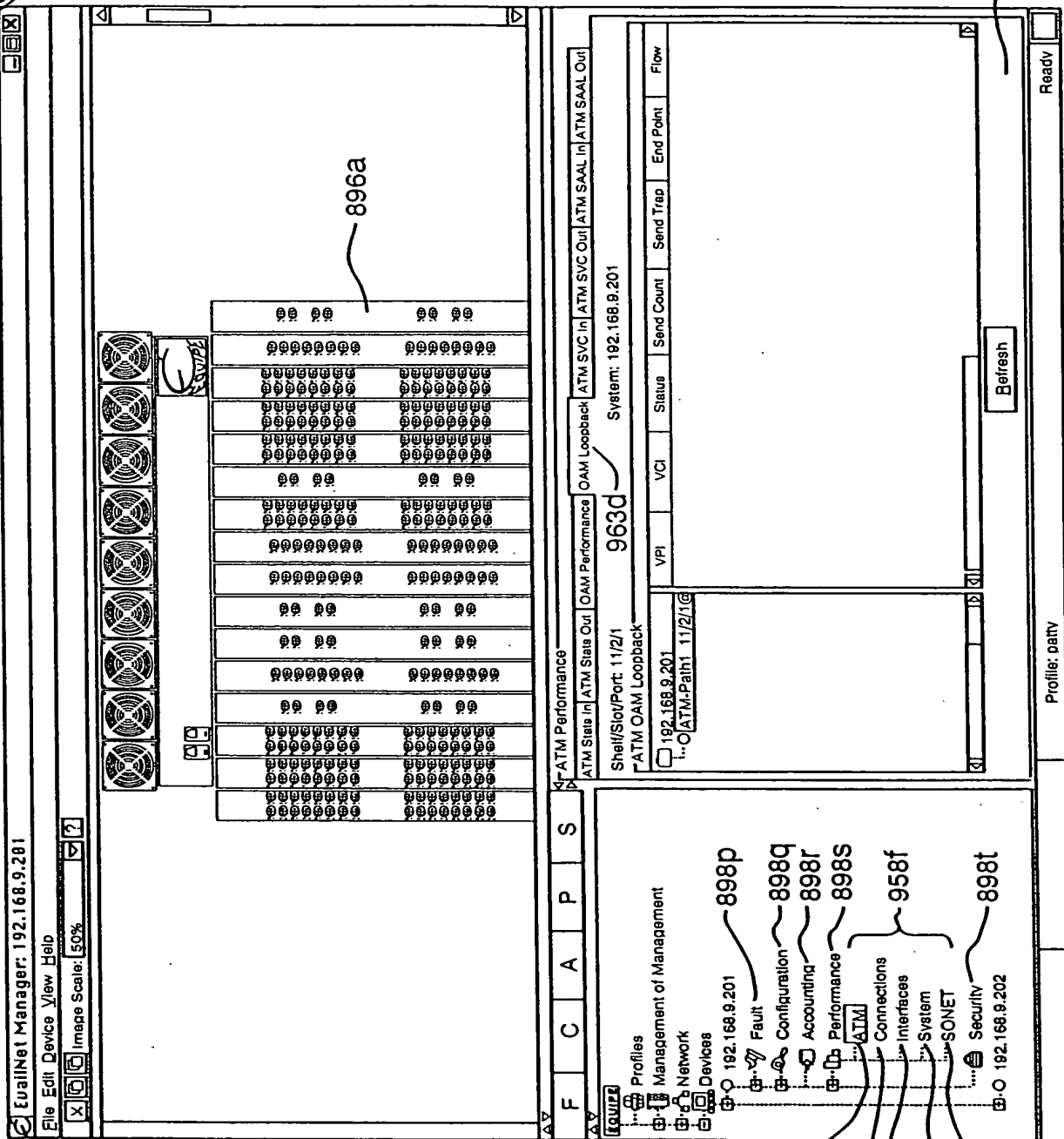


FIG. 7R



110/289

895

EqualNet Manager: 192.168.9.201

File Edit Device View Help

Image Scale: 50%

896a

ATM Performance

ATM Stats In ATM Stats Out OAM Performance OAM Loopback ATM SVC In ATM SVC Out ATM SAAL In ATM SAAL Out

Shell/Slot/Port: 11/2/1 System: 192.168.9.201

ATM Interfaces

Type	Description	Total	Connected	Failures	Last Caus...	Setup PDU's
ATM-Path1	11/2/1 @ 11/2					

Refresh

Profiles

Management of Management

Network

Devices

192.168.9.201

Fault

Configuration

Accounting

Performance

ATM

Connections

Interfaces

System

SONET

Security

192.168.9.202

F C A P S

Ready

897

958g
958h
958i
958j
958k

FIG. 7S

895

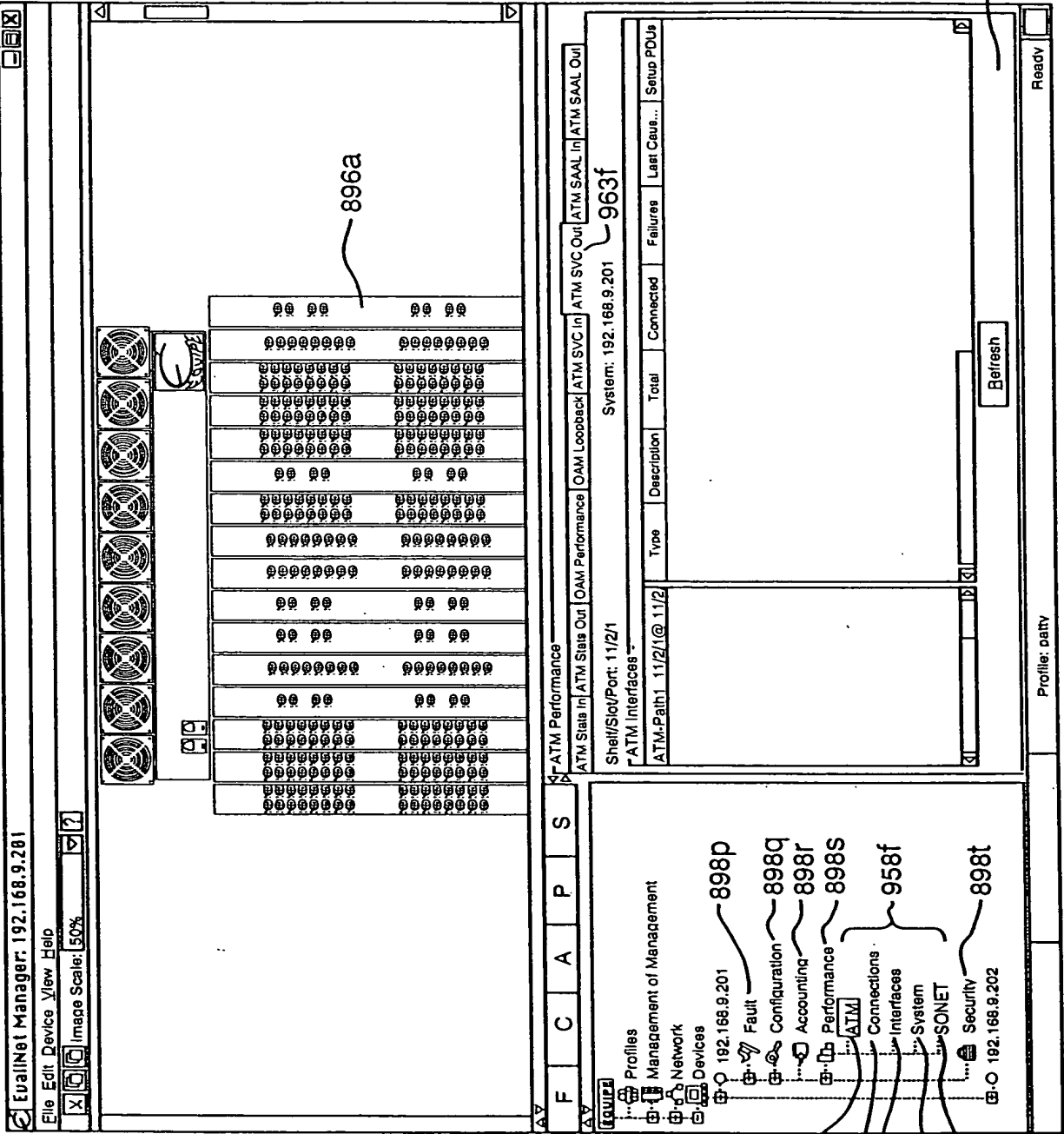


FIG. 7T

895

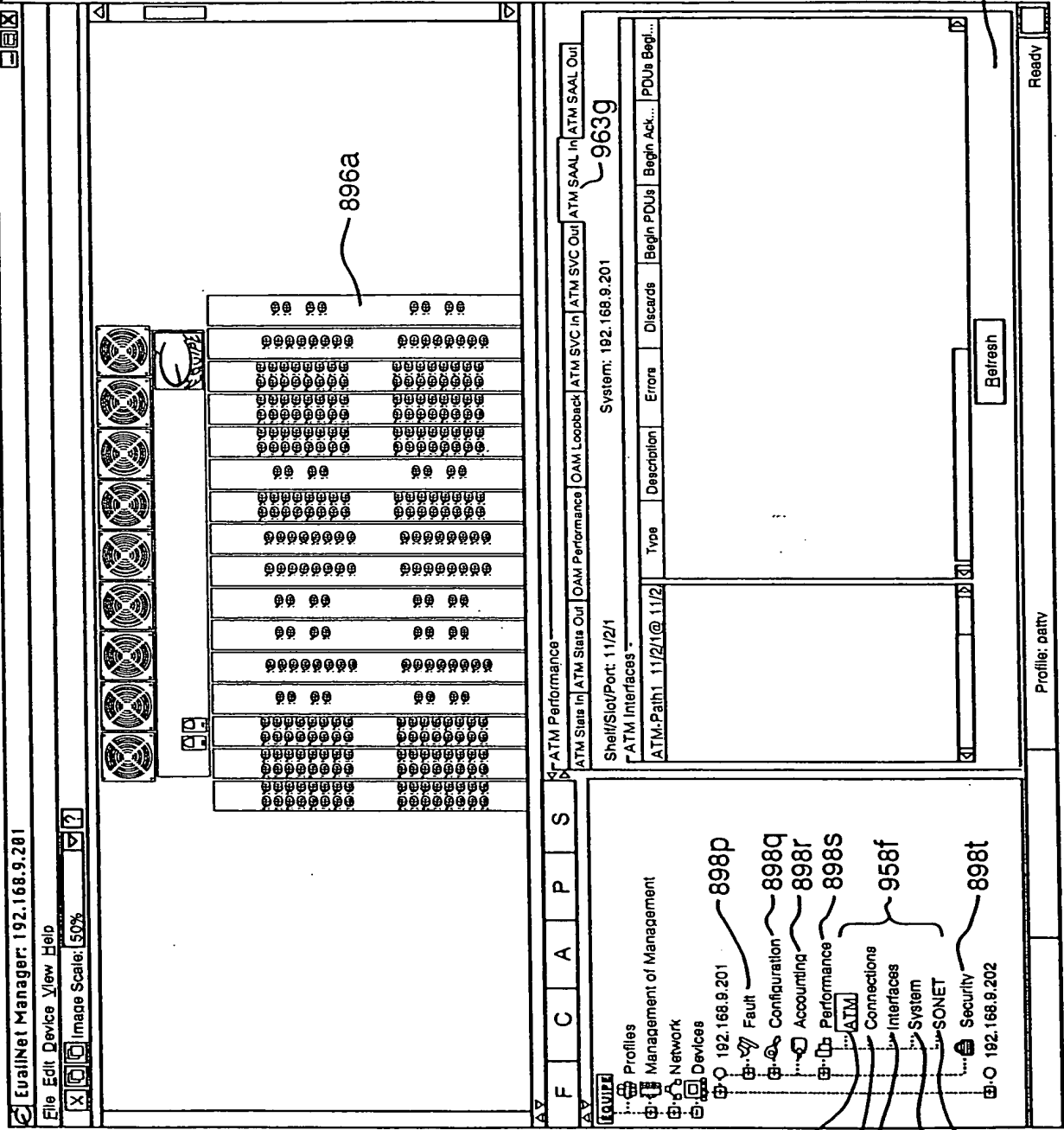


FIG. 7U

895

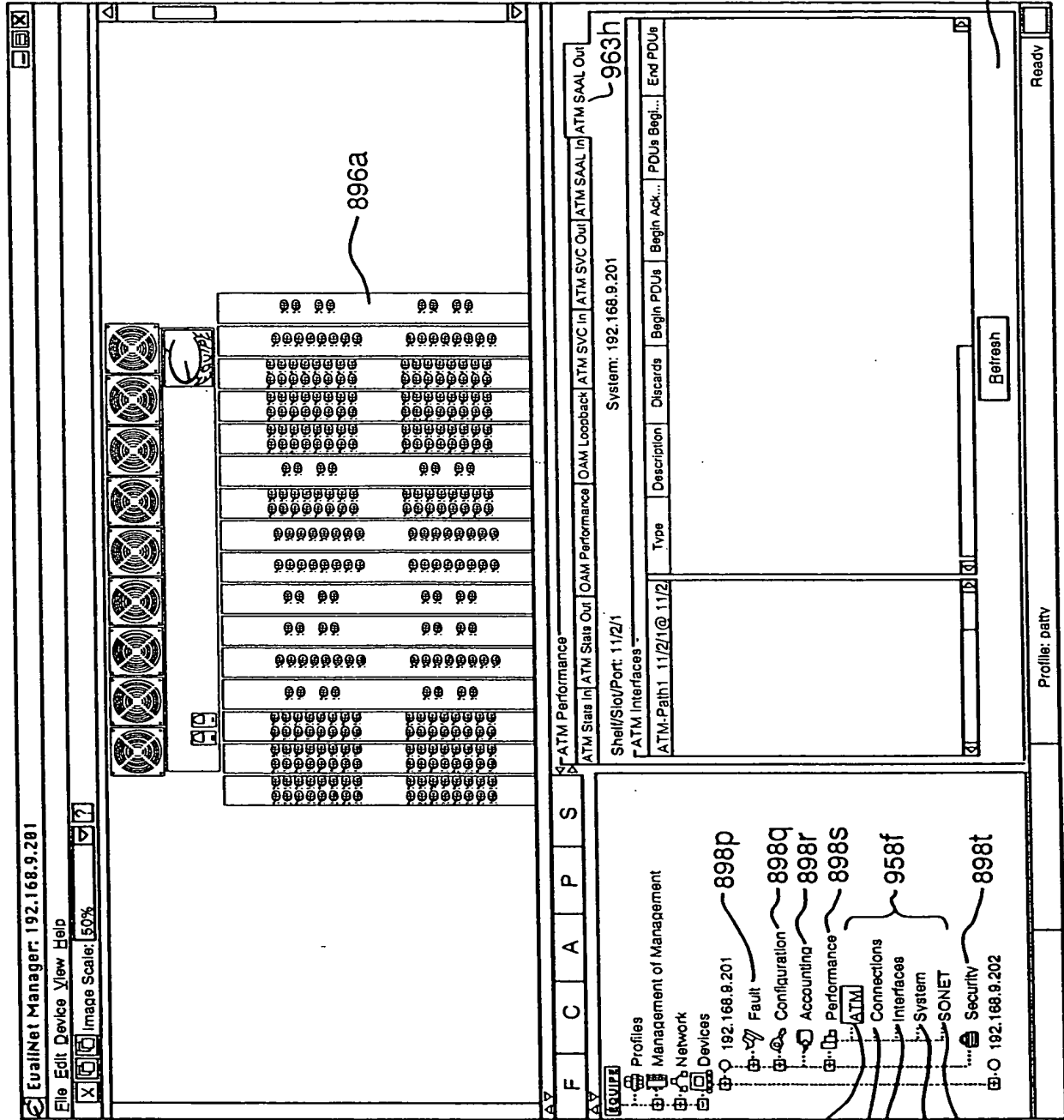


FIG. 7V

895

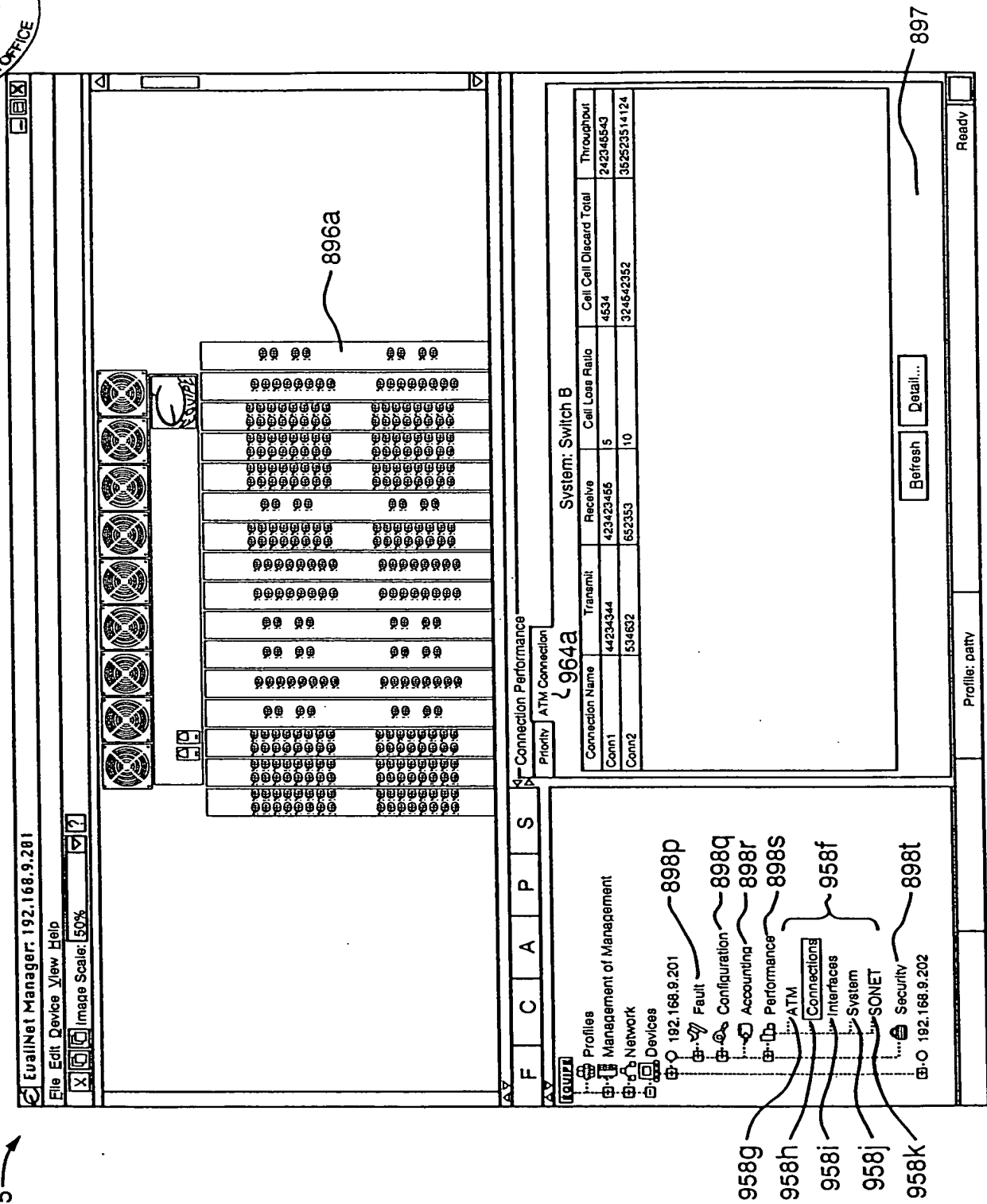


FIG. 7W

895

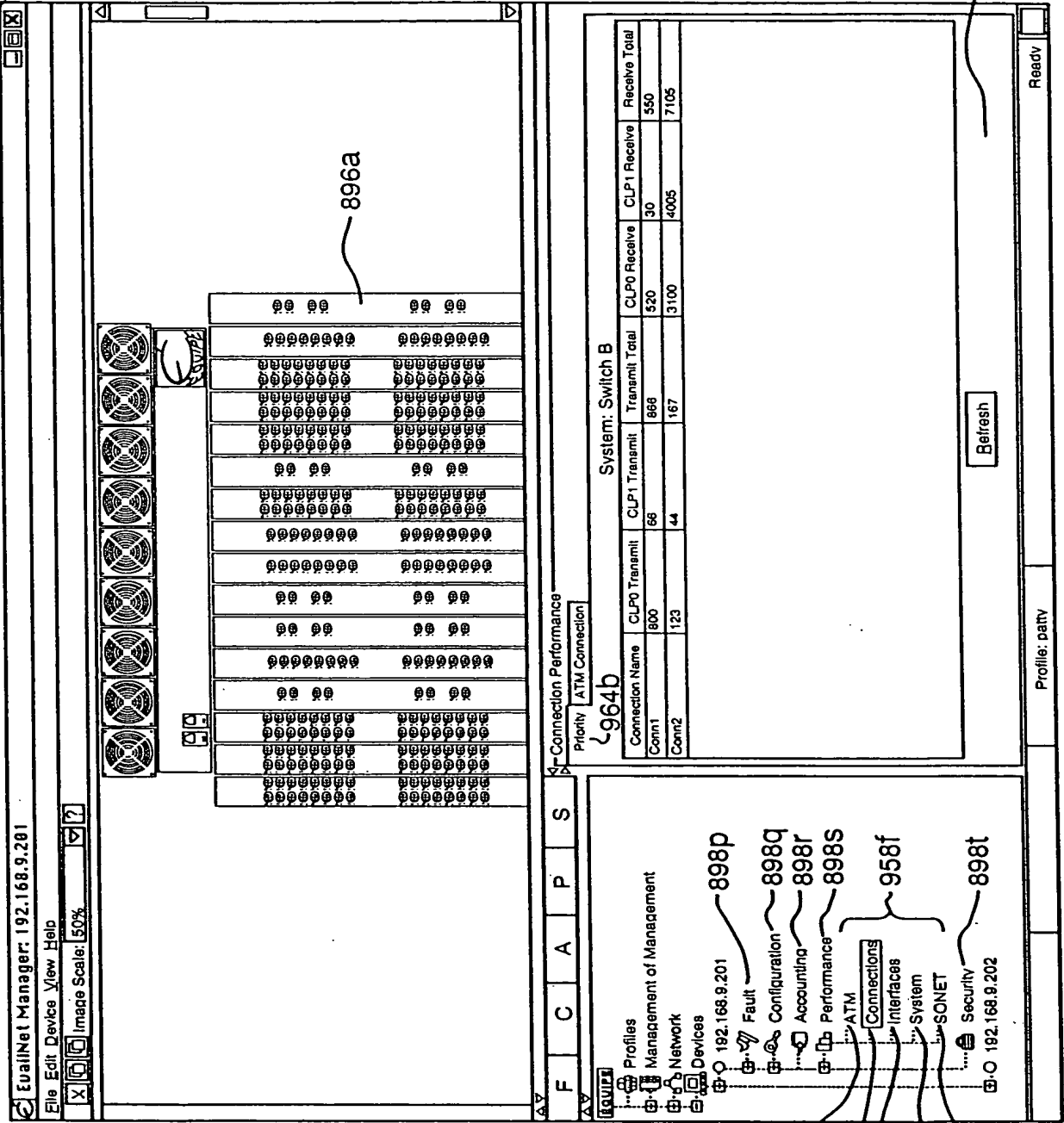


FIG. 7X

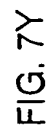


FIG. 7Y

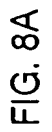
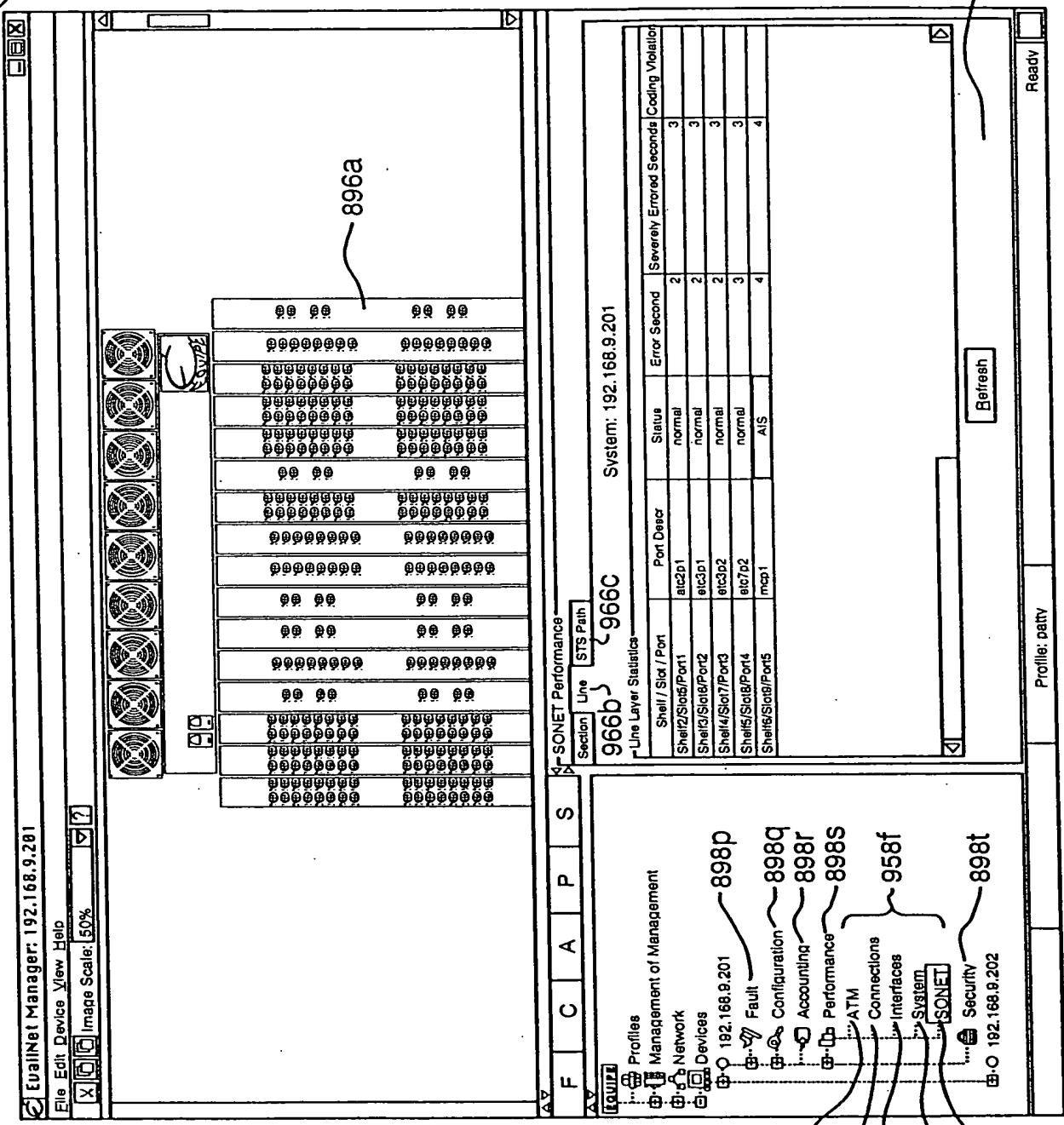


FIG. 8A



895



896a

897

898p
898q
898r
898s
958g
958h
958i
958j
958k
898t

FIG. 8B



895

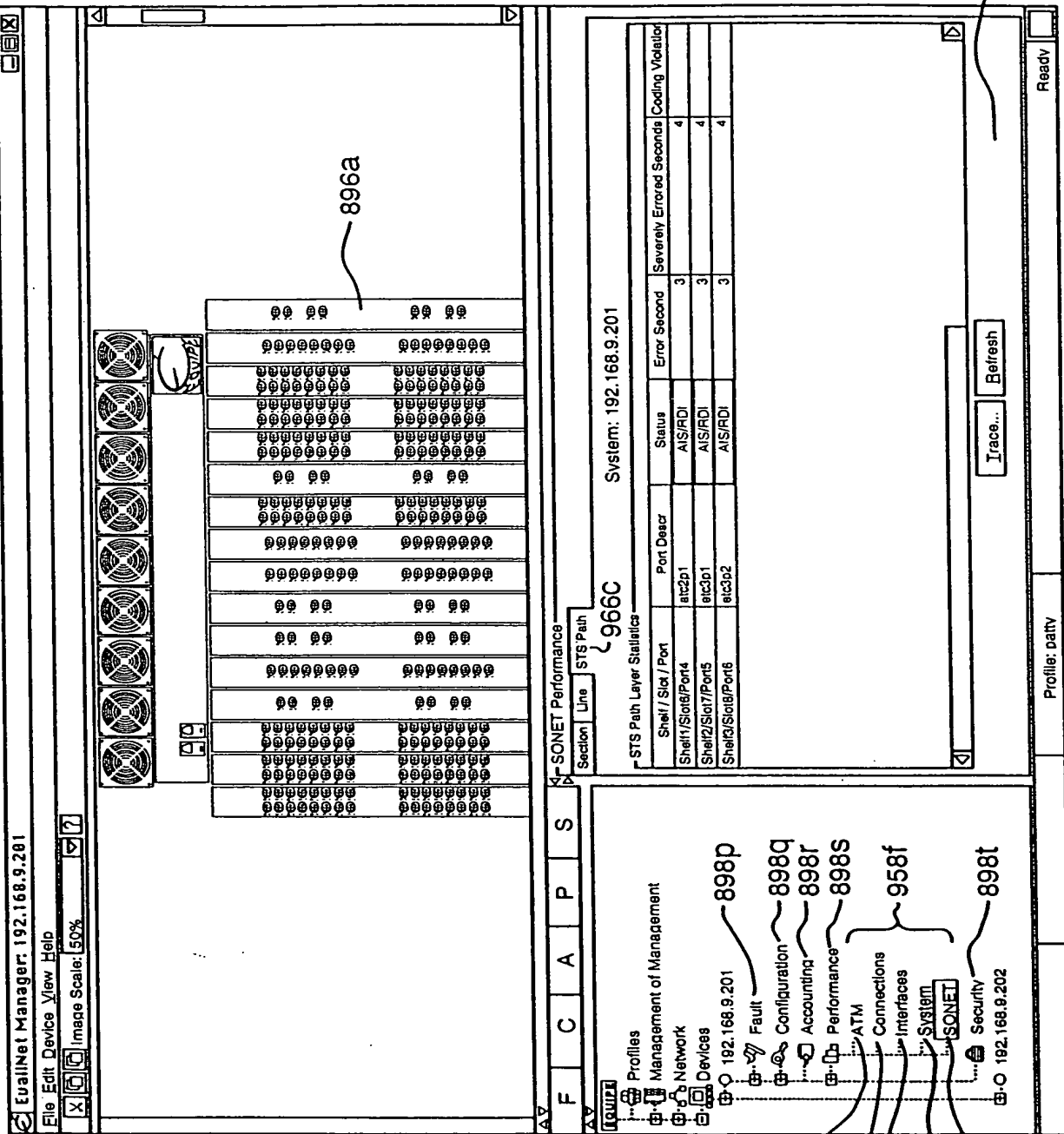
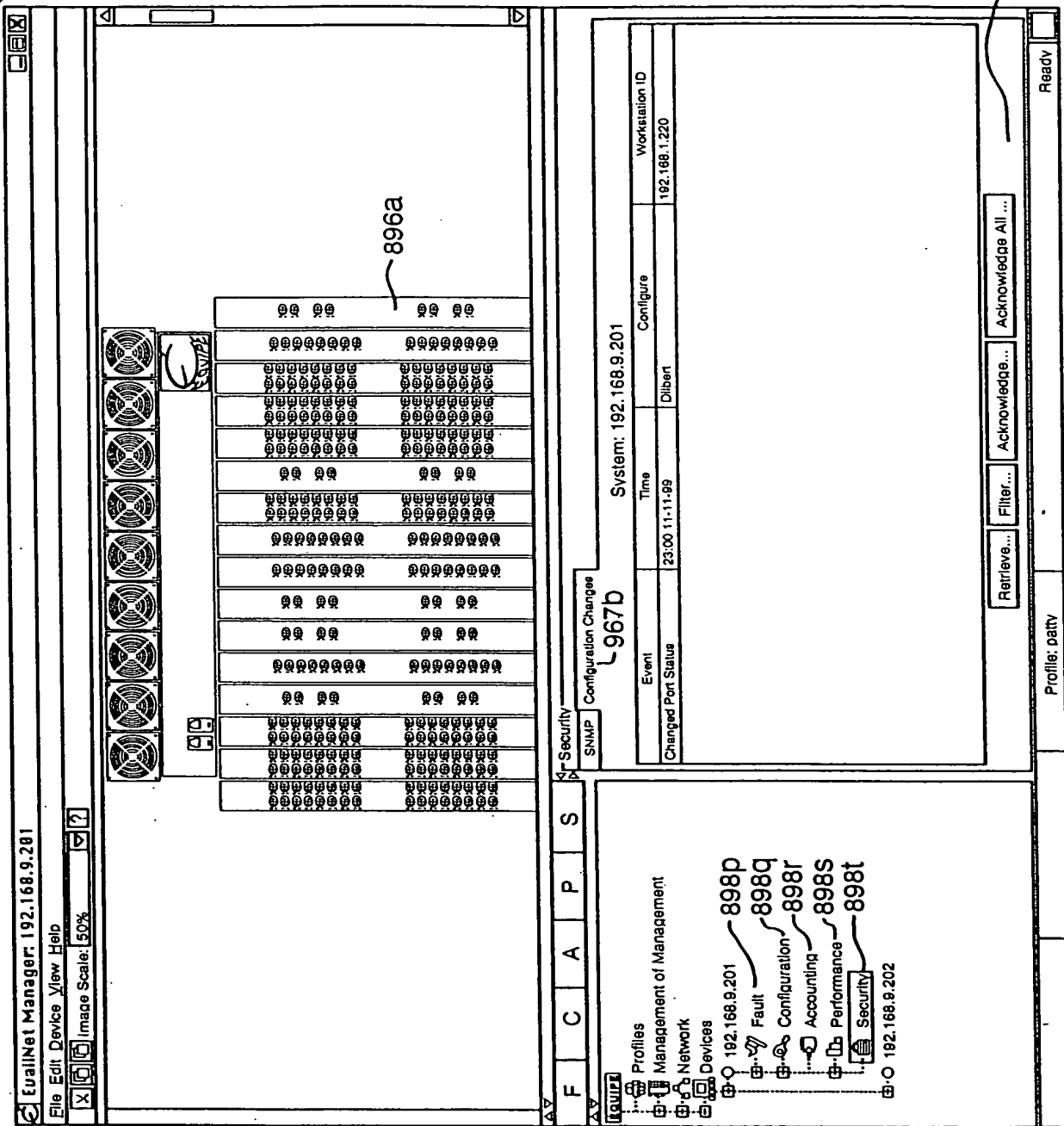


FIG. 8C

895



897

FIG. 8E

895

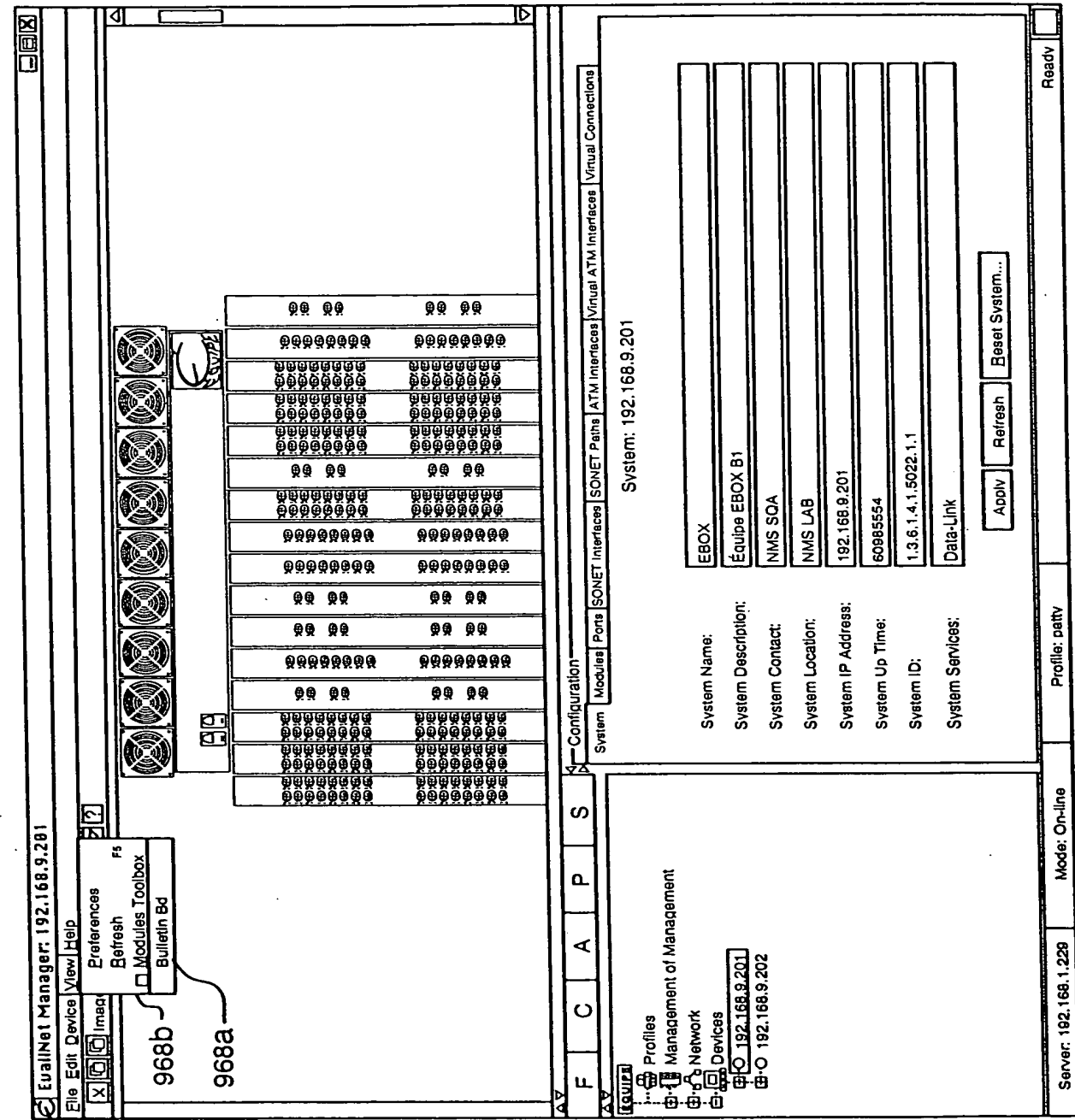


FIG. 9A



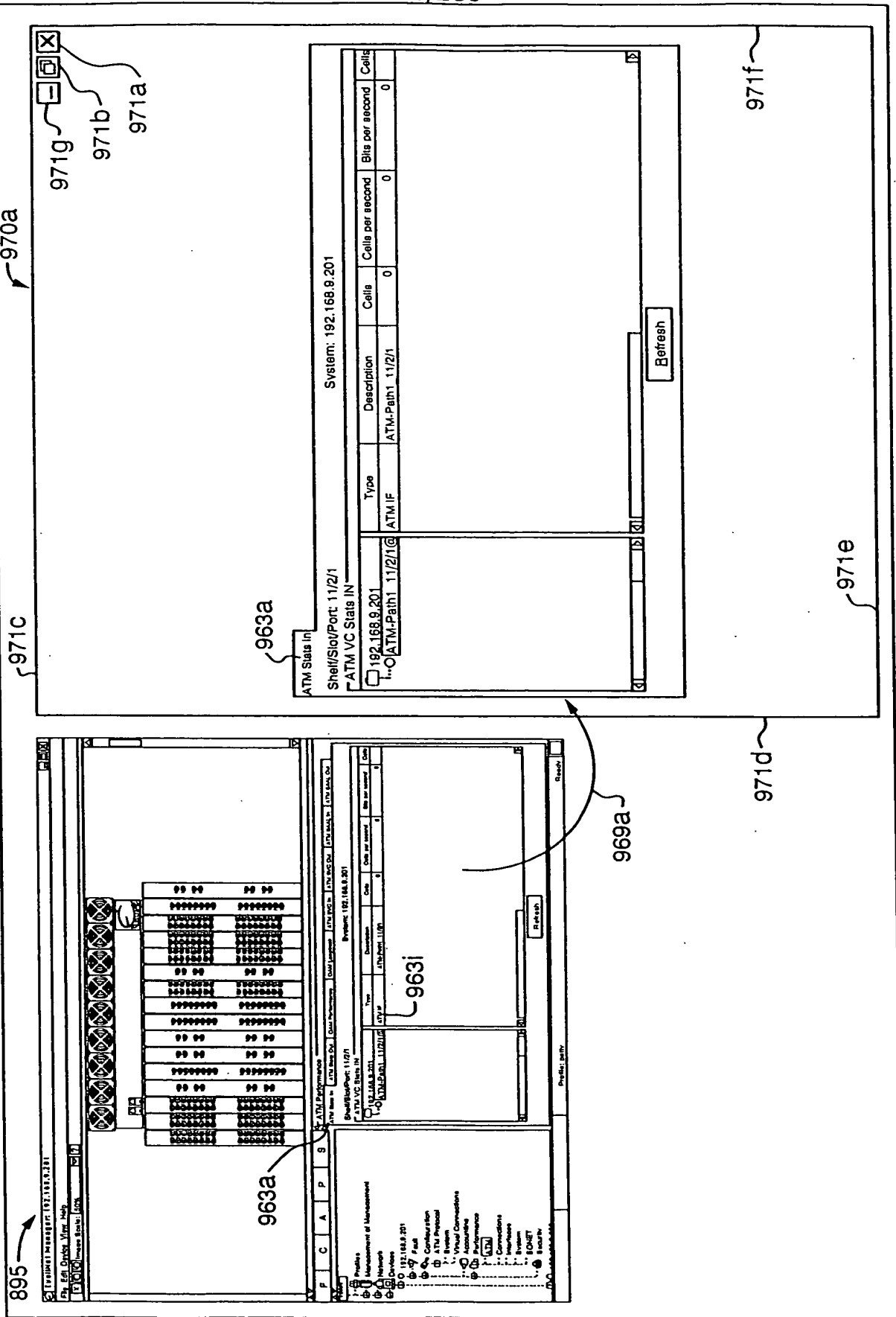


FIG. 9B

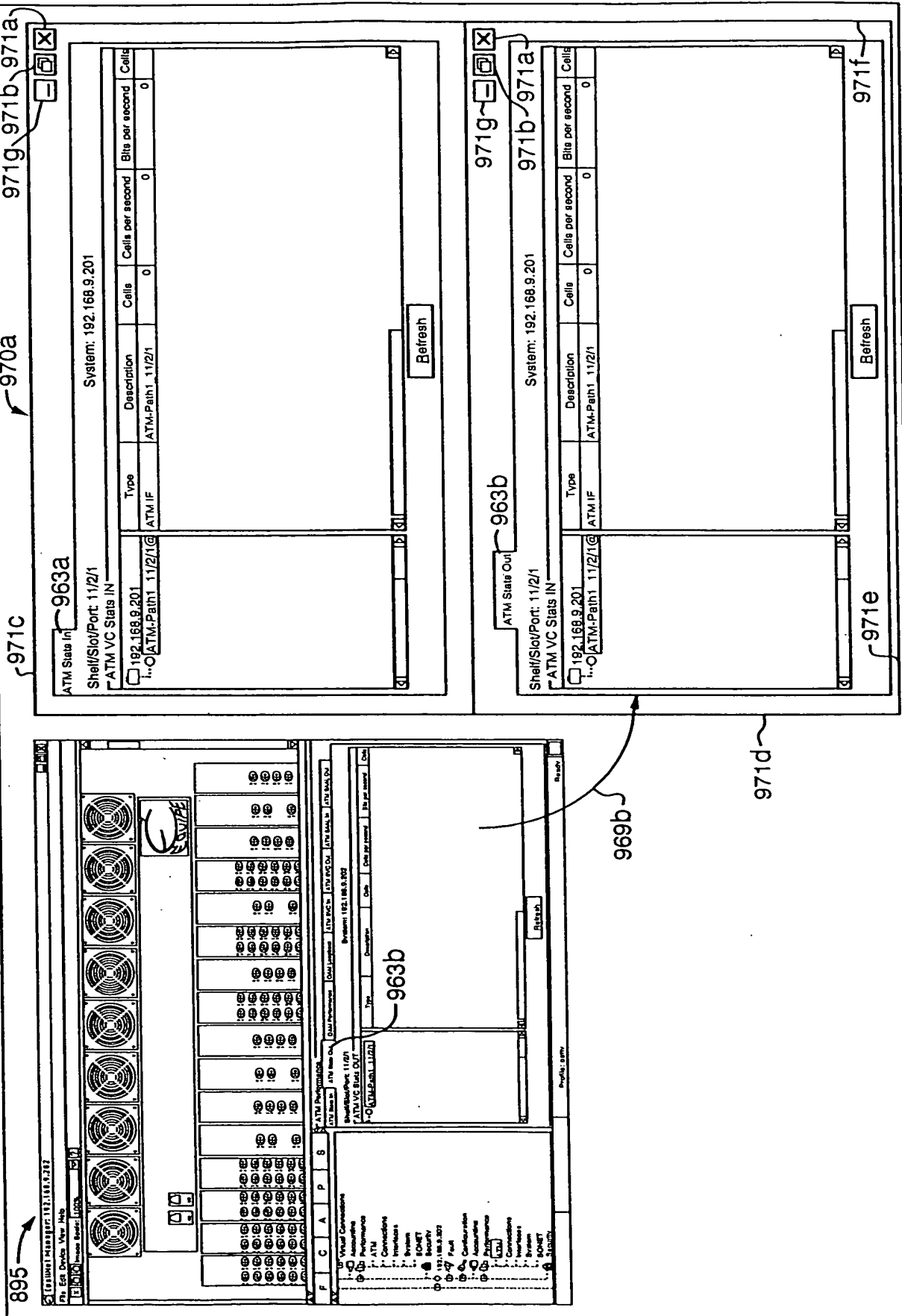
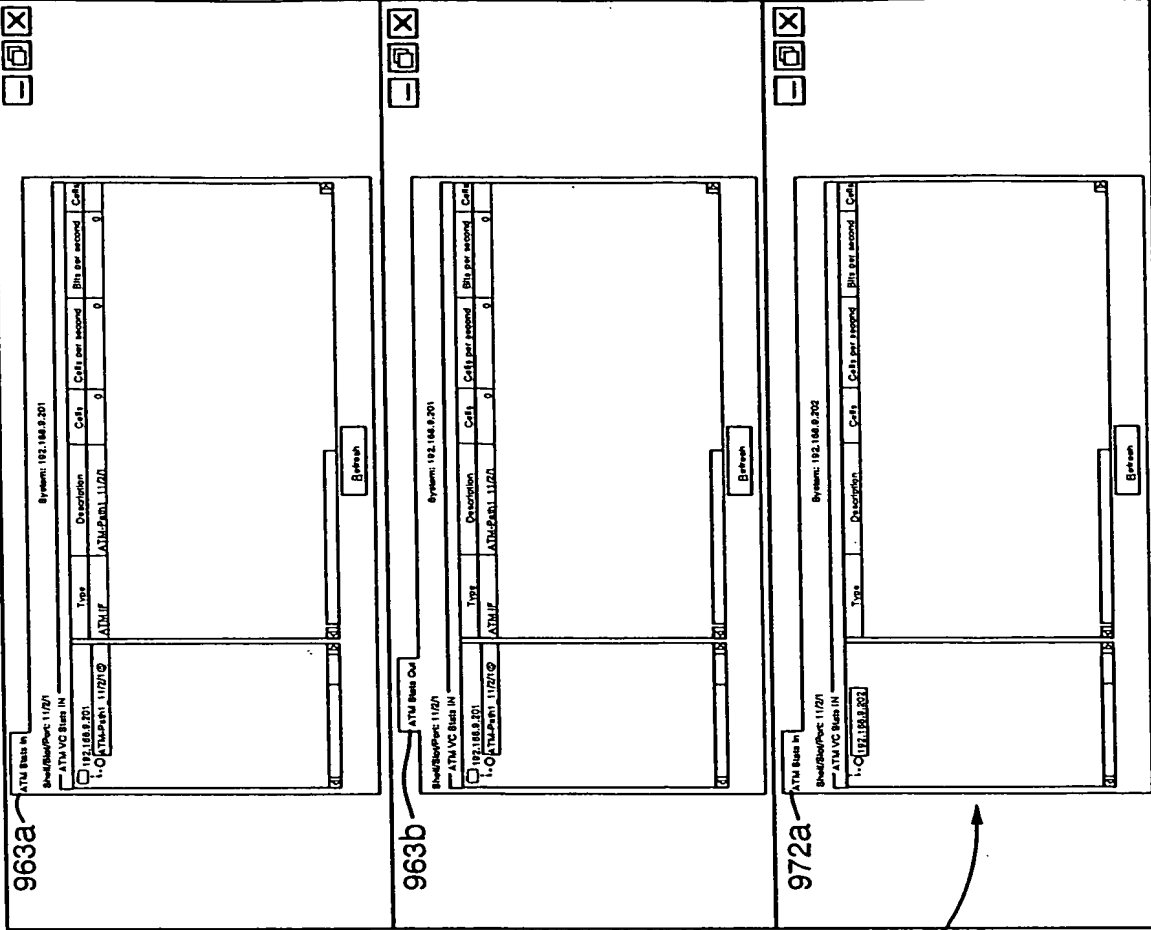
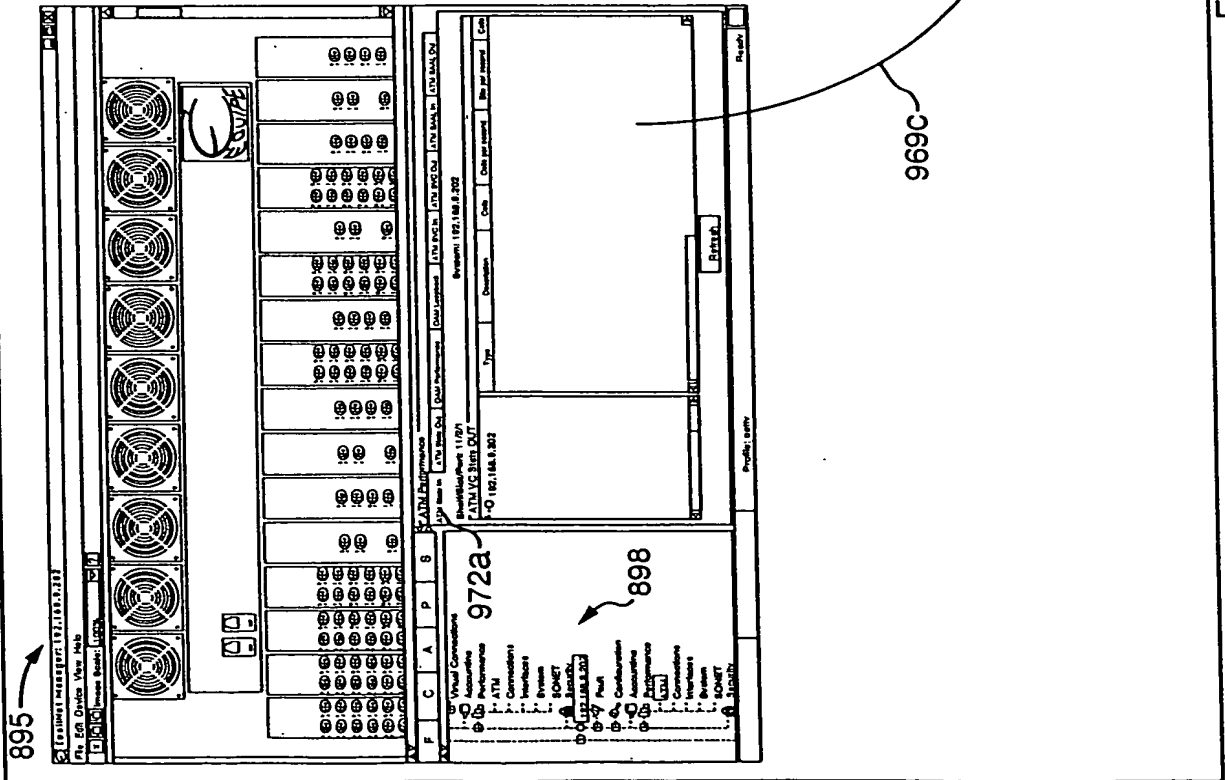
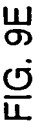


FIG. 9C

970a





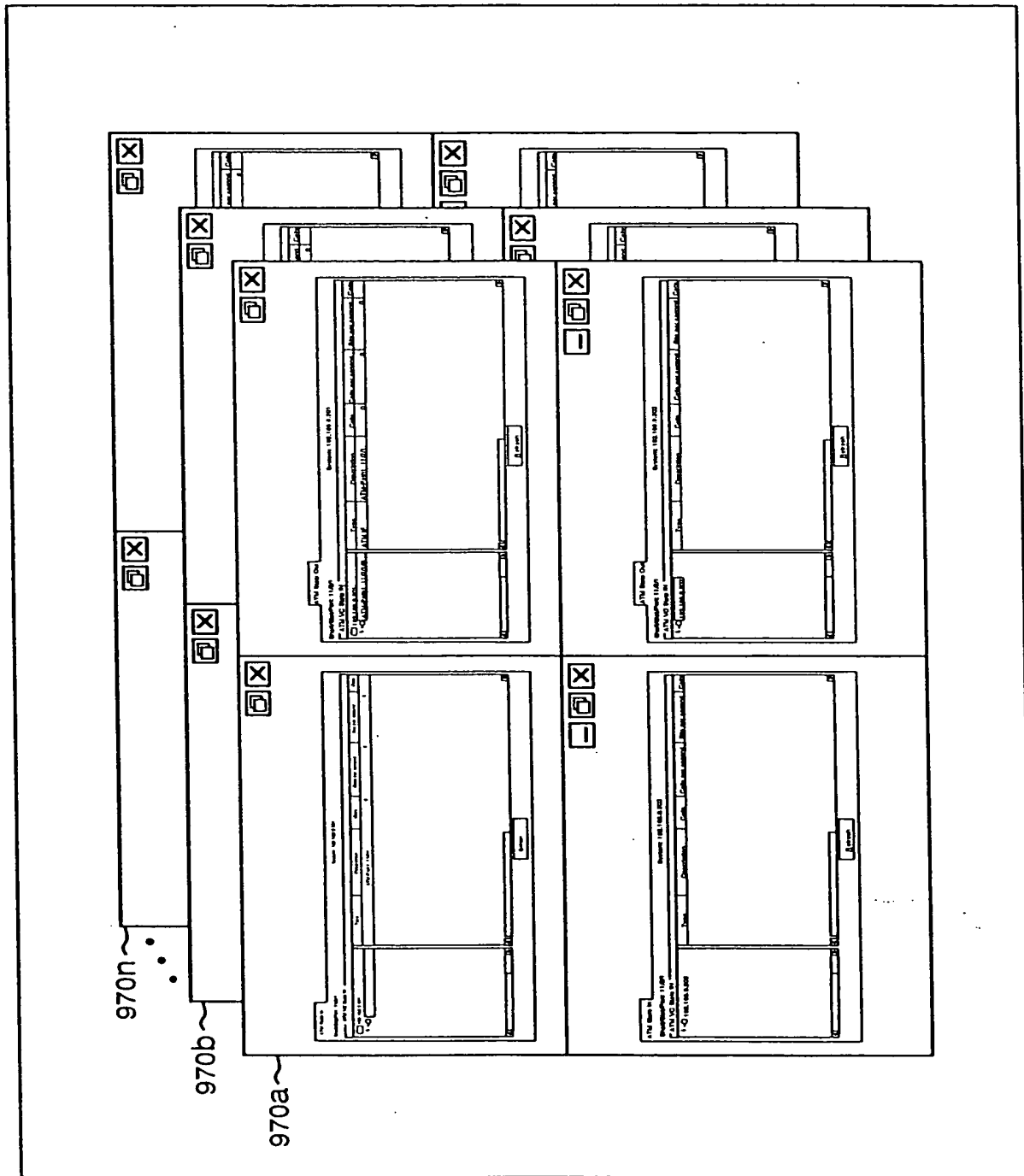


FIG. 9F

ATM Stats Out 963b

Shelf/Slot/Port 11/2/1 System: 192.168.9.201

ATM VC Stats Out

Type	Description	Cells per Second	Bits per Second	Cells
ATM IF	ATM-Path_11/2/1	0	0	0

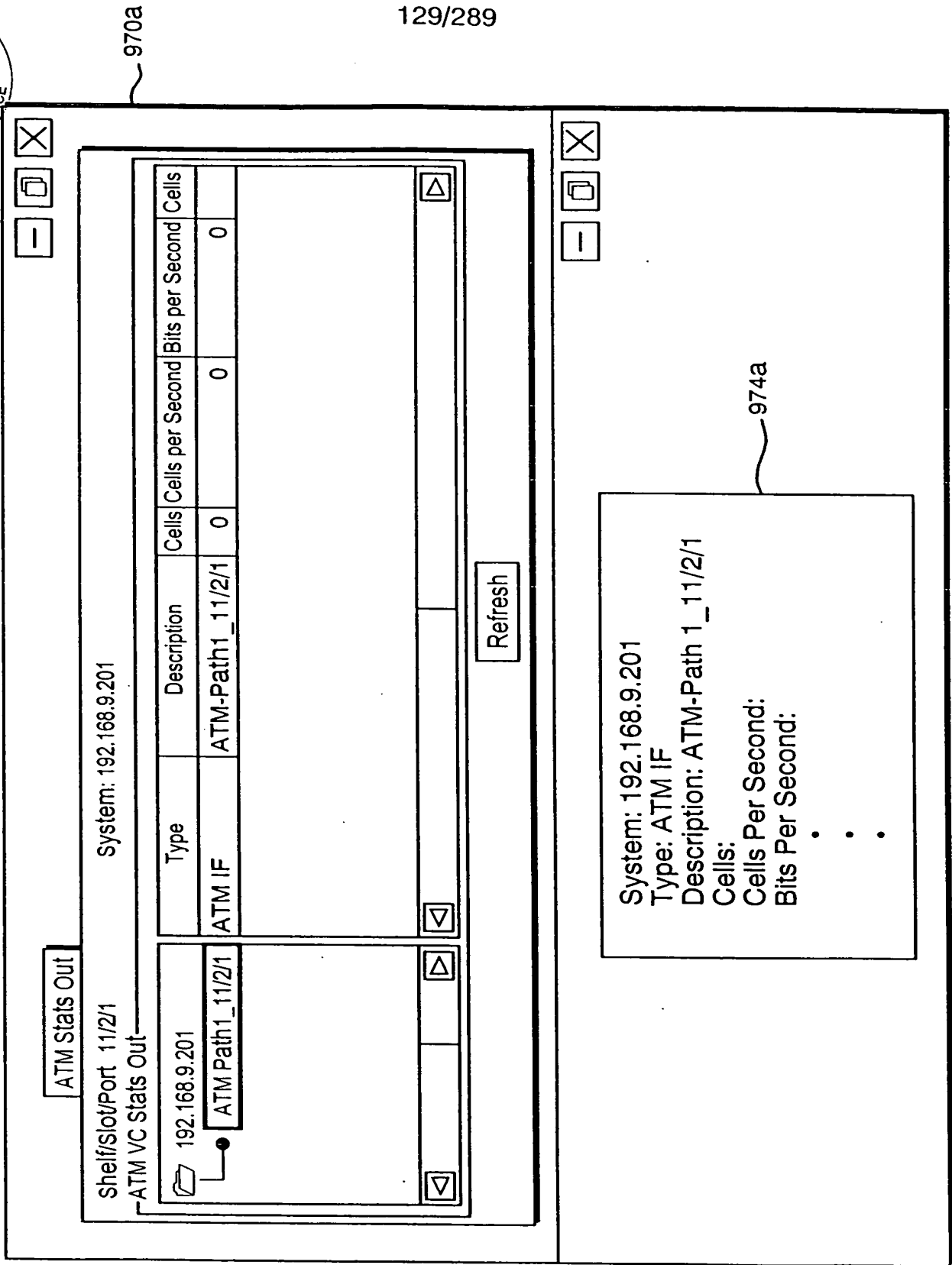
ATM Stats In 963a

Shelf/Slot/Port 11/2/1 System: 192.168.9.201

ATM VC Stats In

Type	Description	Cells per Second	Bits per Second	Cells	Config
ATM IF	ATM-Path_11/2/1	0	0	0	Normal

FIG. 9G



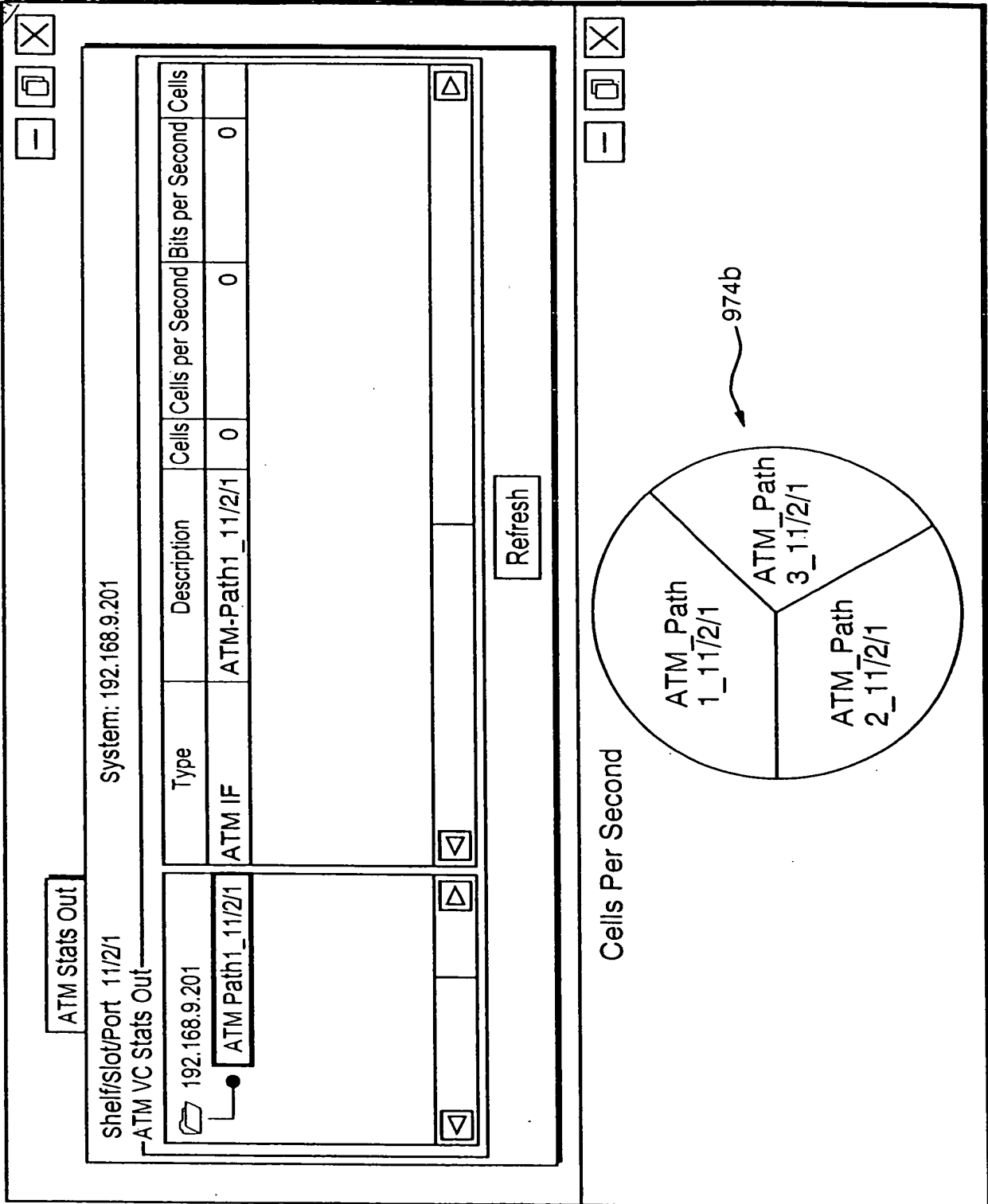


FIG. 91

970a

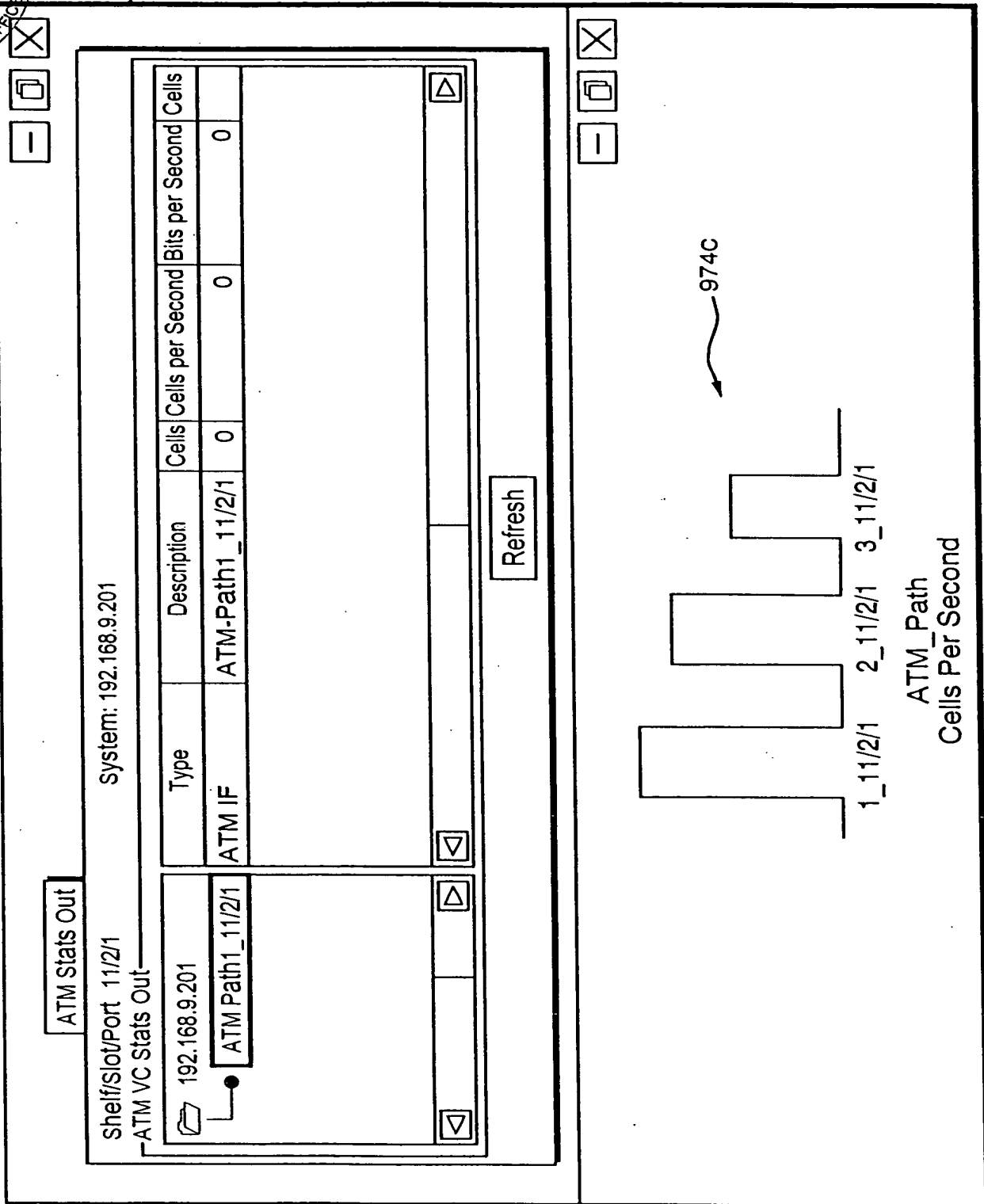


FIG. 9J



ATM Stats Out

Shelf/Slot/Port 11/2/1
System: 192.168.9.201

ATM VC Stats OUT

System: 192.168.9.201

ATM Path1_11/2/1

ATM IF

ATM-Path_11/2/1

Cells

Cells per Second

Bits per Second

Cells

Refresh

ATM Interface Properties - 192.168.9.202

Shelf/Slot/Port: 11/4/1 Path Name: Path2_11/2/1

ATM Properties

Name

Minimum VPI bits

Maximum VPI bits

Minimum VCI bits

Maximum VCI bits

ATM-Path_11/2/1

1

8

5

16

OK

Cancel

FIG. 9K

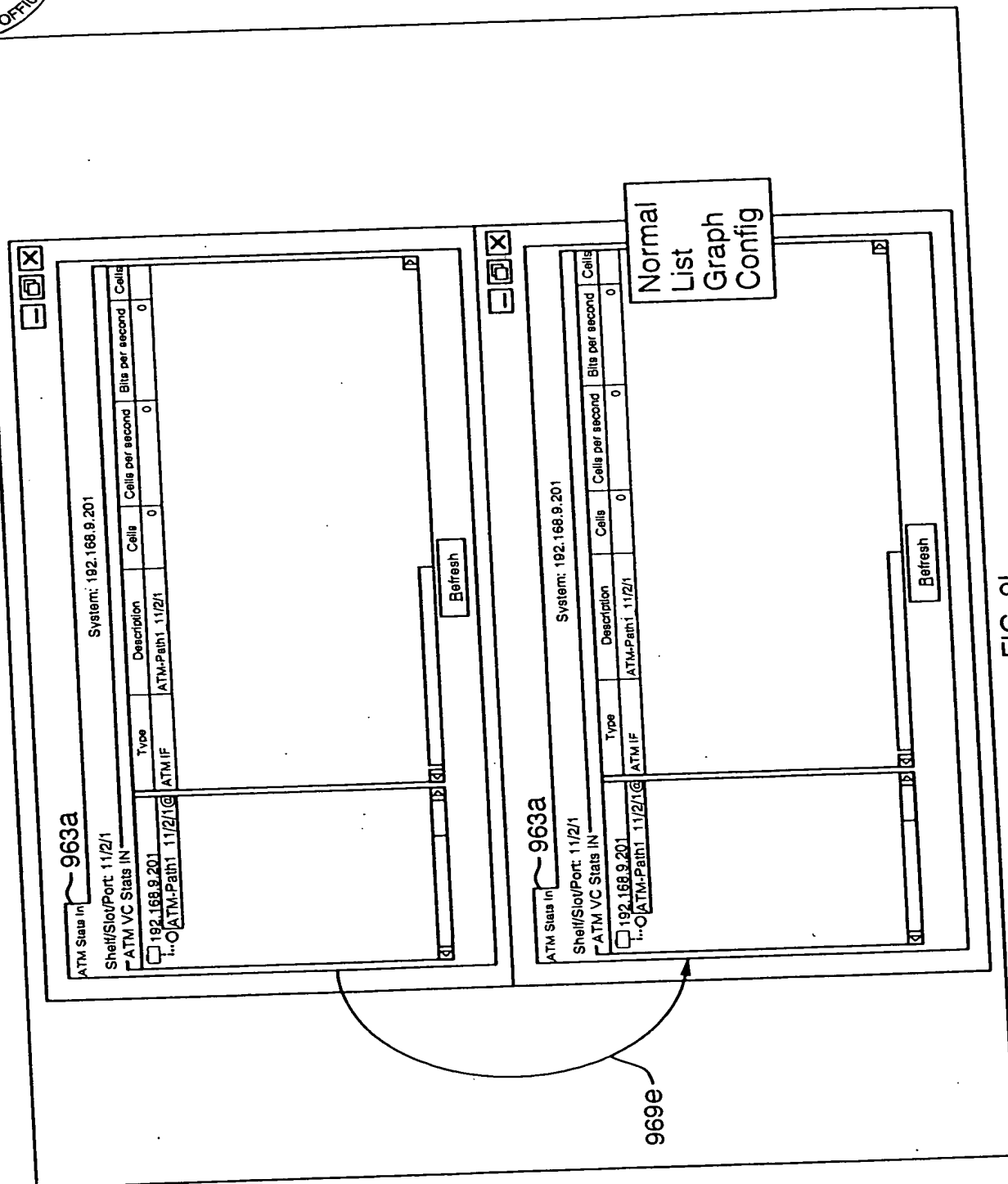


FIG. 9L

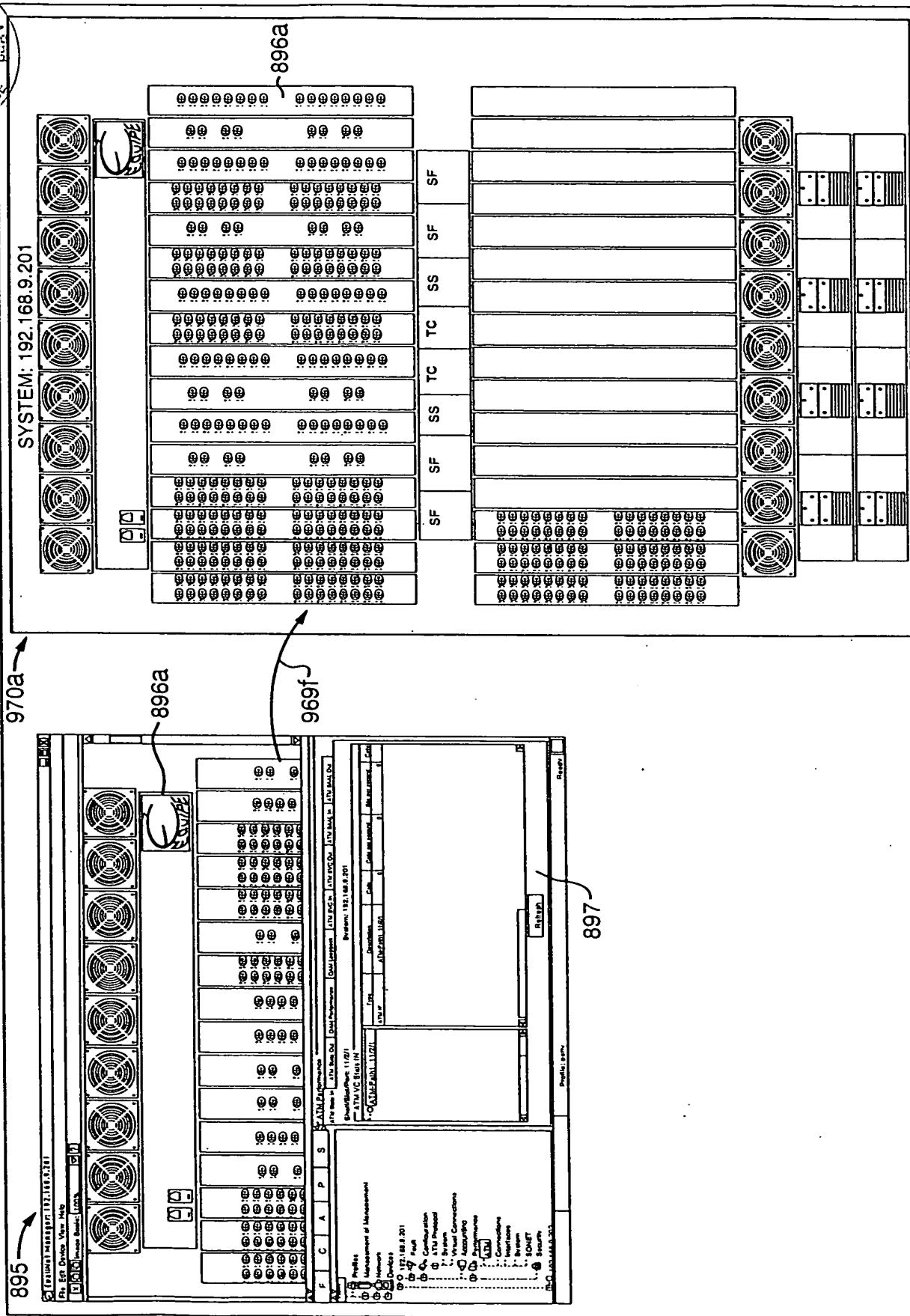
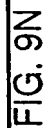


FIG. 9M



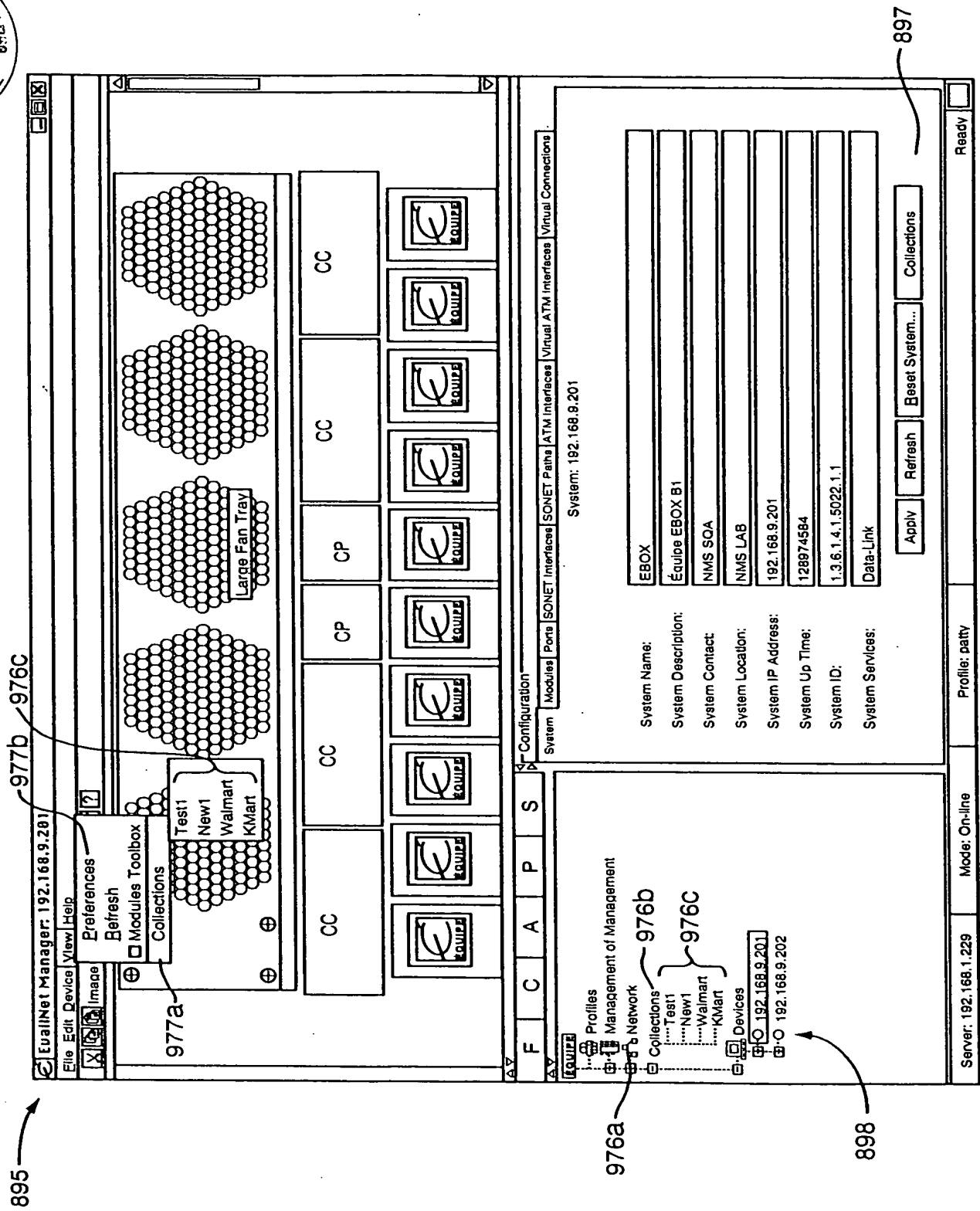
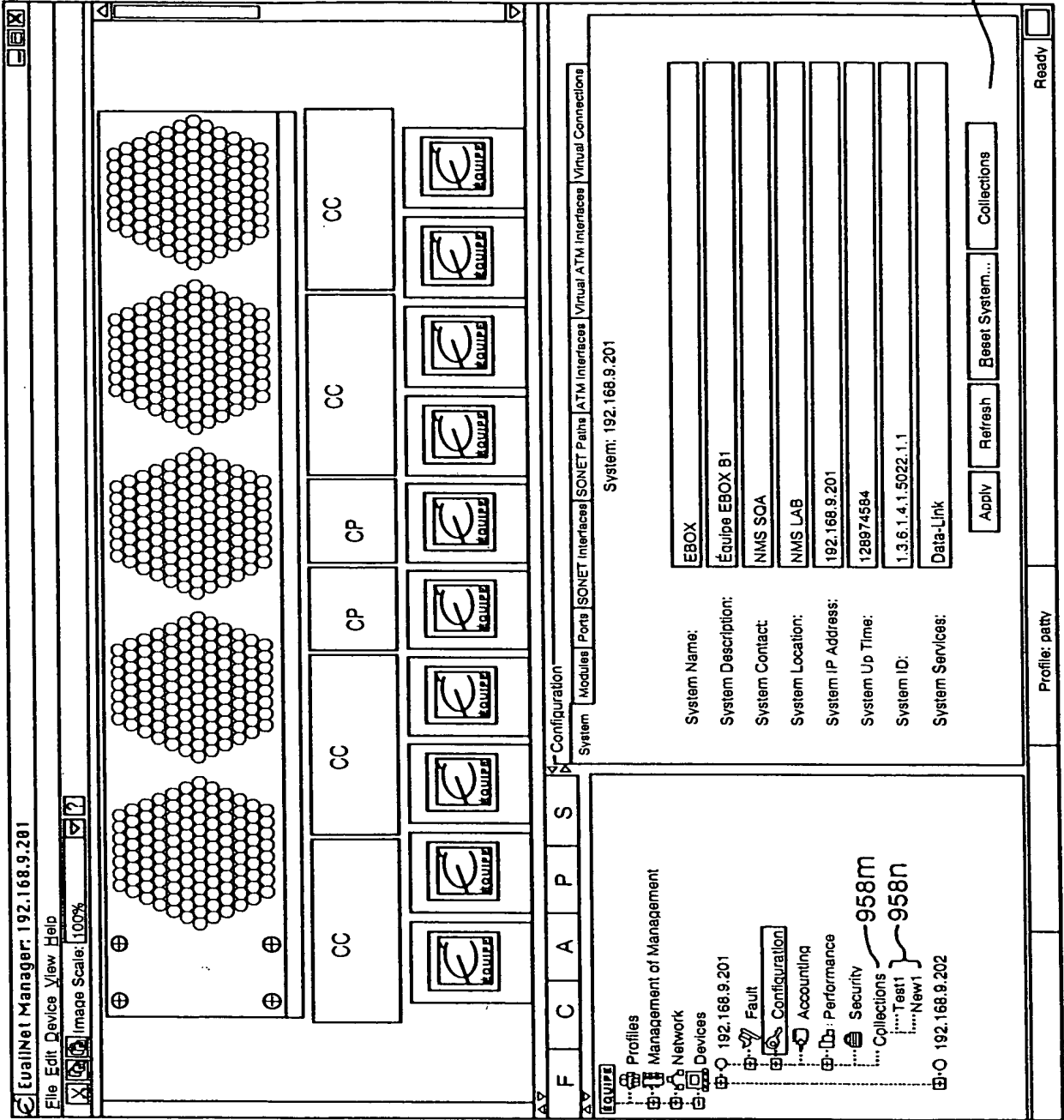
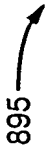
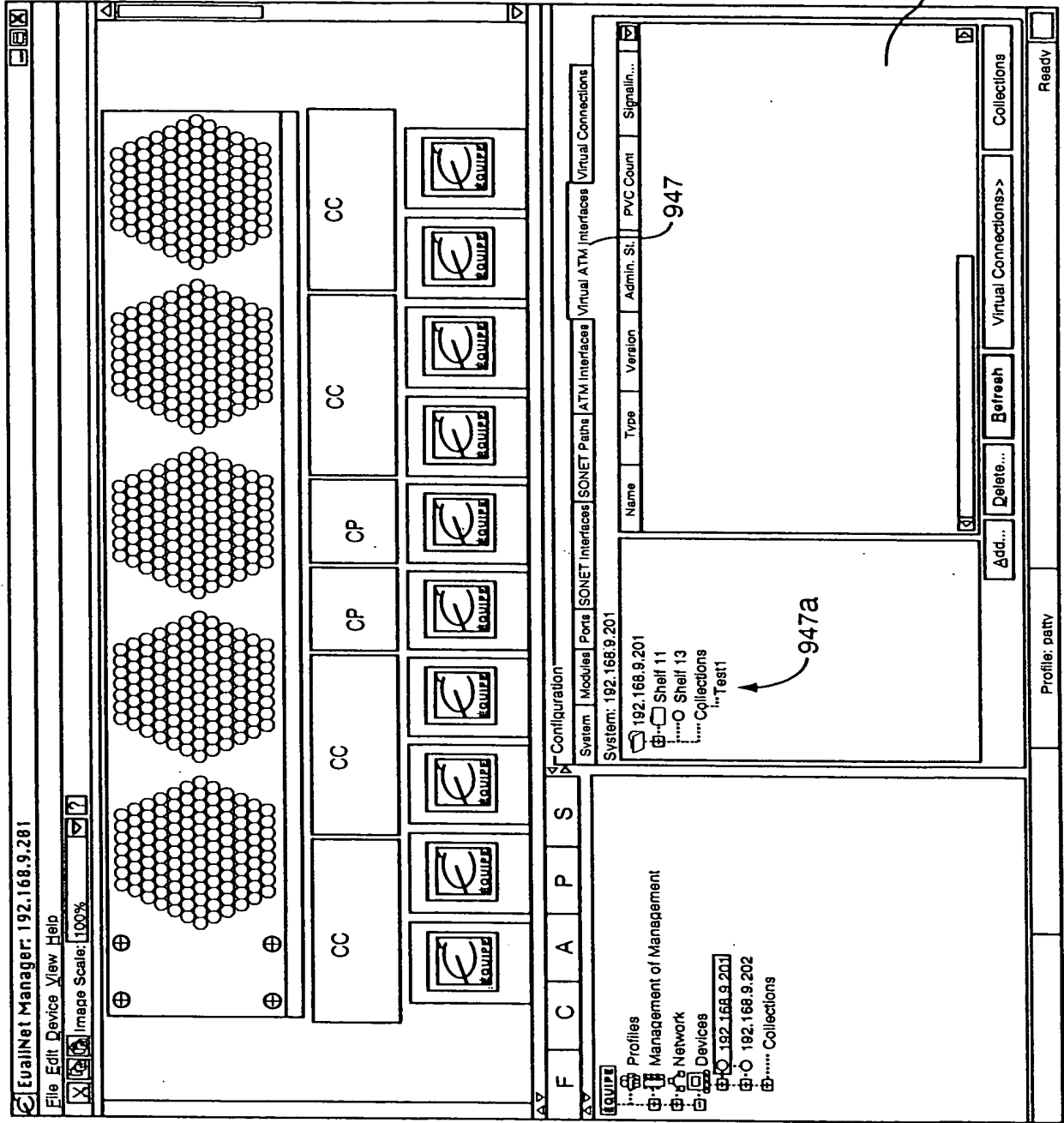


FIG. 10A



895

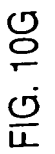


897

947

947a

FIG. 10C



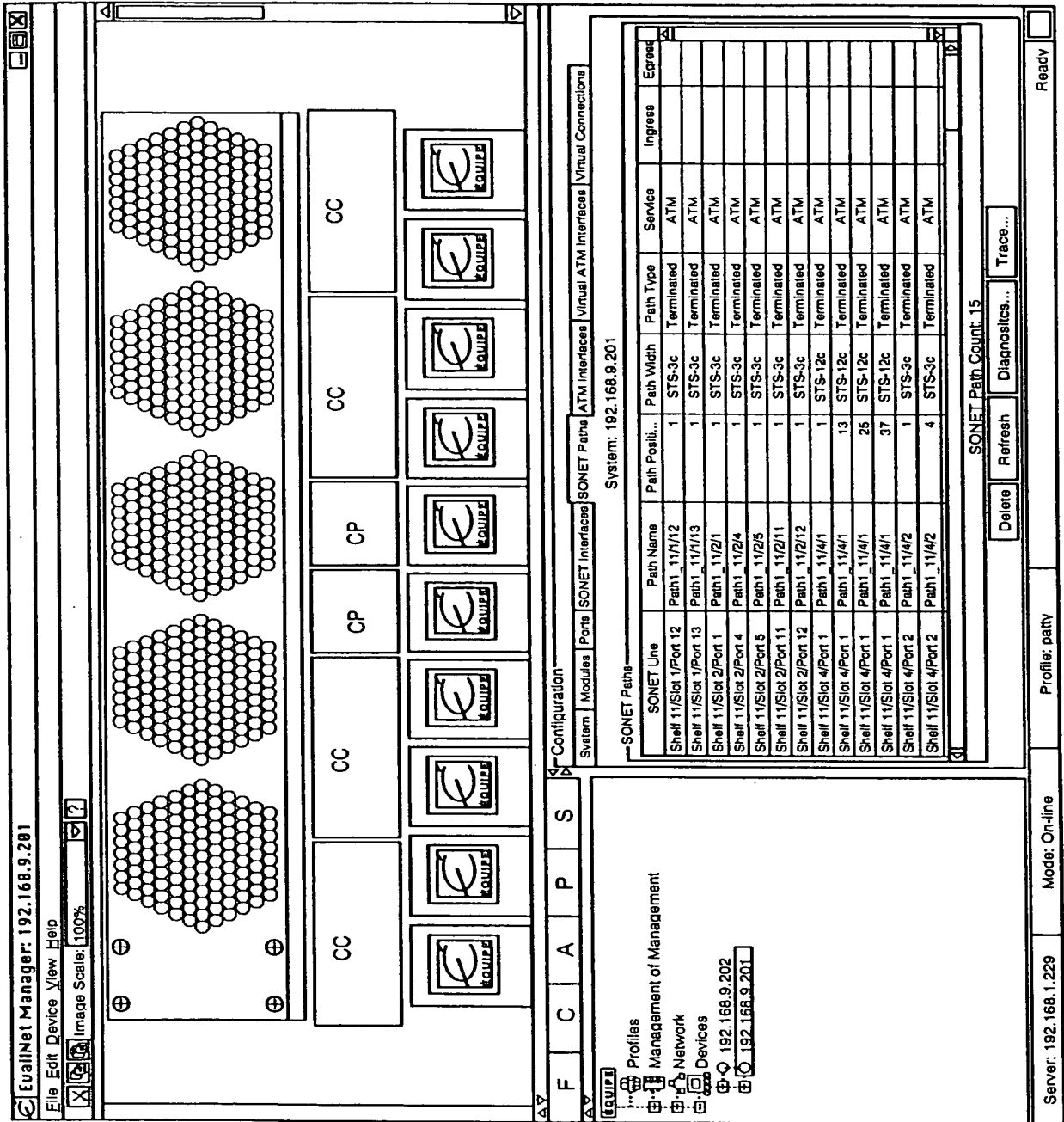
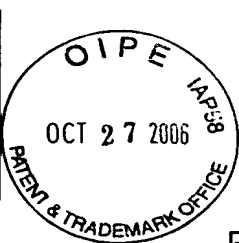


FIG. 10H



EvalNet Manager: 192.168.9.201

File Edit Device View Help

Image Scale: 100%

SONET Path Count: 15

System: 192.168.9.201

Configuration

System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections

SONET Paths

SONET Line	Path Name	Path Posi...	Path Width	Path Type	Service	Ingress	Egress
Shell 11/Slot 1/Port 13	Path1_11/1/13	1	STS-3c	Terminated	ATM		
Shell 11/Slot 2/Port 1	Path1_11/2/1	1	STS-3c	Terminated	ATM		
Shell 11/Slot 2/Port 5	Path1_11/2/5	1	STS-3c	Terminated	ATM		
Shell 11/Slot 4/Port 2	Path1_11/4/2	4	STS-3c	Terminated	ATM		
Shell 11/Slot 4/Port 2	Path1_11/4/2	34	STS-12c	Terminated	ATM		

SONET Path Count: 15

Delete Refresh Diagnostics... Trace... Remove

Server: 192.168.1.229 Mode: On-line Profile: patty Ready

Management of Management

Network

Devices

192.168.9.202

192.168.9.201

Fault

Configuration

Accounting

Performance

Security

Collections

Test

New

FIG. 10I

903

Profiles

System: 192.132.60.150

Profile Manager

Name	Description	Security Level	Timeout	Primary Server	Secondary Server
Joe	Joe Whitehouse	Admin	15	192.168.1.32	192.168.1.32
Wayne	Wayne Arena	Provisioner	15	TeamServer1:192...	TeamServer2:192.168.1.32

Add

Delete...

Refresh

Copy

904

905

906

FIG. 11A

TO
FIG. 11C

FIG. 11B

FROM
FIG. 11B

Servers

Primary Server:

Primary Server Port:

Secondary Server:

Secondary Server Port:

192.168.1.220

6500

192.168.1.221

6503

Devices

Device

192.168.9.202

192.168.9.205

192.168.9.216

READ

public

public

public

READWRITE

equipe

equipe

equipe

Retry

3

3

3

Timeout

3

3

3

908g

908p

908q

908r

908s

908l

908n

908m

908o

Add

Delete

908t

OK

Cancel

FIG. 11C



General

Policies

Servers

Devices

Primary Server:

Primary Server Port:

Secondary Server:

Secondary Server Port:

192.168.1.220

6500

192.168.1.205

6503

908t

OK

Cancel

FIG. 11D



General

Policies

Servers

Devices

Device	READ	READWRITE	Retry	Timeout	Trap Port
192.168.9.202	public	equipe	3	3	162
192.168.9.205	public	equipe	3	3	162
192.168.9.216	public	equipe	3	3	5012

908t

OK

Cancel

Add

Delete

FIG. 11E



General

Policies

Servers

Devices

Username:

Description:

Customer Name:

Group Level Access:

Password:

Confirm Password:

Kevin

Kevin Snow user account

Equipe

☐

908t

OK

Cancel

FIG. 11F



General

Policies

Servers

Devices

☐ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15

Minutes

908t

OK

Cancel

FIG. 11G

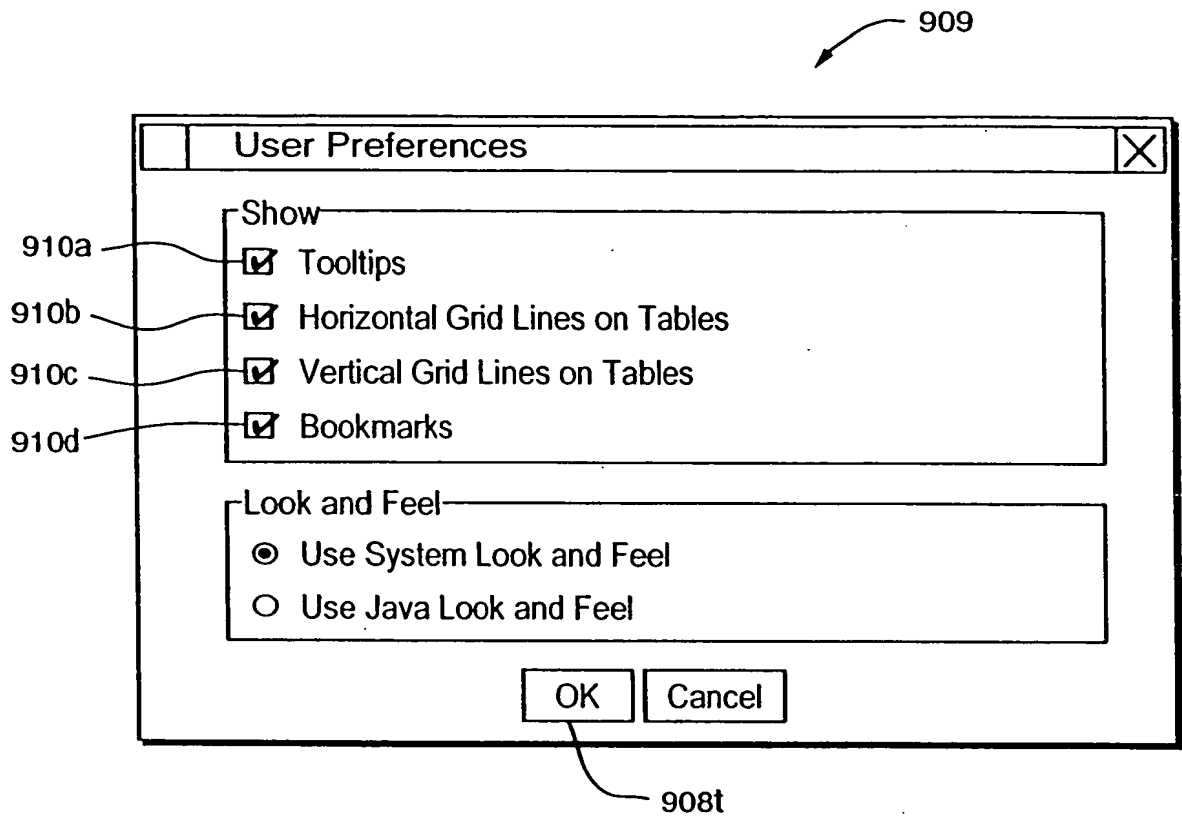
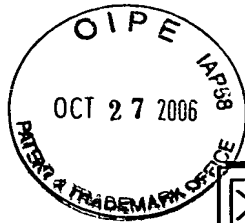


FIG. 11H



907

General

Username: Kevin 908a

Description: Kevin Snow user account 908e

Group Name: Equipe 908f

Group Level Access: ☒ 908d

Password: ***** 908b

Confirm Password: ***** 908c

Policies

☒ User Cannot Change Password 908h

☐ Account Disabled 908i

☒ User Can Add Devices 908j

User Session Timeout: 15 908k Minutes

TO
FIG. 11J

FIG. 11I



FROM
FIG. 11I

908g

Servers

908l

Primary Server:

908n

Primary Server Port:

908m

Secondary Server:

908o

Secondary Server Port:

908p

908q

908r

908s

Devices

Device	READ	READ/WRITE	Retry	Timeout
192.168.9.202	public	equipe	3	3
19 Group List				
19 Walmart-East				
Walmart-West				
Kmart 1				
Sears-Northeast				

1000a

1000

Add

Delete

FIG. 11J



EvaiiNet Manager: SONET Path Configuration - 11/8/5

System: 192.168.9.201

SONET Line

Slot 8 Port 5 Type OC12

SONET Path Wizard

☒ Configure a single concatenated path (STS-12c)

☐ Configure

☐ Custom Configuration

4

STS-3c

paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/8/5	Path1_11/...	1	STS-12c	Termin.	ATM		

1002e Modify

Graphical Representation

Position

Width

1

STS-12c

1002d

1002b

Group Name:

1002c

OK

Cancel

1002a

FIG. 11K



1002

EvailNet Manager: SONET Path Configuration - 11/8/5

System: 192.168.9.201

SONET Line

Slot 8 Port 5 Type OC12

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)

☒ Configure

☐ Custom Configuration

4 STS-3C paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/8/5	Path1_11/8/5	1	STS-3c	Termin.	ATM		
11/8/5	Path2_11/8/5	4	STS-3c	Termin.	ATM		
11/8/5	Path3_11/8/5	7	STS-3c	Termin.	ATM		
11/8/5	Path4_11/8/5	10	STS-3c	Termin.	ATM		

1002e Modify

Graphical Representation

Position	Width
1	STS-3C
4	STS-3C
7	STS-3C
10	STS-3C

Group Name:

OK Cancel

1002d

1002b

1002c

1002a

FIG. 11L



EvailNet Manager: SONET Path Configuration - 11/8/5

System: 192.168.9.201

SONET Line

Slot 8 Port 5 Type OC12

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)

☐ Configure

☒ Custom Configuration

4 paths

STS-3c

Functions

Available SONET Paths

STS-3c

Add>

<Remove

<<Clear

Allocated SONET Paths

STS-3c

STS-3c

STS-3

STS-3

↑

↓

Path Table

SONET Line	Path Name	Path Position	Path Width	Path Type	Service	Ingress Co...	Egress Co...
11/8/5	Path1_11/8/5	1	STS-3c	Terminated	ATM		Δ
11/8/5	Path2_11/8/5	4	STS-3c	Terminated	ATM		
11/8/5	Path3_11/8/5	7		Terminated	ATM		▽

1002e Modify

Graphical Representation

Position

1

4

Width

STS-3c

STS-3c

1002a

1002d OK Cancel

Group Name 1002b 1002c

1002~

FIG. 11M

MANAGED RESOURCE GROUP TABLE 1008

LID	MANAGED DEVICE PID	GROUP NAME
1145	1	WALMART-EAST
:	:	:
:	:	:
:	:	:

FIG. 11N

MANAGED RESOURCE TABLE 1007

LID	RESOURCE LID	MANAGE RESOURCE GROUP LID
4443	901	1145
:	:	:
:	:	:
:	:	:

FIG. 11O



Add V-ATM Interface - 192.168.9.201 [X]

Shelf/Slot/Port: 11/4/2 Path Name: Path2_11/4/2

Virtual ATM Interface Parameters

Name (Alias):		
Connection Type:	Direct Link	▼
Version:	UNI Network 3.1	▼
Admin. Status:	Up	▼
Group Name:		▼

[OK] [Cancel]

1004

1004a

1004b

1004c

FIG. 11P



1006

EvailNet Manager: 192.168.9.201-Virtual Connection Wizard

Source: 192.168.9.201 Destination: 192.168.9.201

End Point 1

192.168.9.201
+ Shelf 11
+ Slot 1
+ Slot 2
+ Slot 3
- Slot 4
+ Port 1
+ Port 2
+ ATM-Path2_11/4/2

End Point 1

192.168.9.201
+ Shelf 11
+ Shelf 13

Connection Parameters

Connection Name:

Admin Status: Up 1006b

Group Name: Group List

End Point 1 Parameters:

VPI: ☐ Use Any VPI Value

VCI: ☐ Use Any VCI Value

Transmit Traffic Descriptor: Add Traffic Descriptor...

Receive Traffic Descriptor:

☐ Use the same Traffic Descriptor for both Transmit and Receive

End Point 2 Parameters:

VPI: ☐ Use Any VPI Value

VCI: ☐ Use Any VCI Value

Transmit Traffic Descriptor: Add Traffic Descriptors...

Receive Traffic Descriptor:

☐ Use the same Traffic Descriptor for both Transmit and Receive

1006C

1006a

FIG. 11Q



USER TABLE 1010

1010a	1010b		1010c	1010d	1010e
	LID	USERNAME	PASSWORD	GROUP LEVEL ACCESS	
	2012	DAVE	MARBLE	PROVISIONER	
	⋮	⋮	⋮		

FIG. 11R

USER MANAGED DEVICE TABLE 1012

1012a	1012b		1012c	1012d	1012e
	LID	USER LID	HOST LID	RETRY	TIMEOUT
	7892	2012	9046		
	⋮	⋮	⋮	⋮	⋮

FIG. 11S



ADMINISTRATION MANAGED DEVICE TABLE 1014

1014a LID	1014b			1014c			1014d		
	HOST ADDRESS	PORT ADDRESS	RETRY	TIMEOUT	ADMIN. PASSWORD	PROV. PASSWORD	VIEWER PASSWORD		
	9046	192.168.9.202	1521	TEAM 1	TEAM 2	TEAM 3			

FIG. 11T

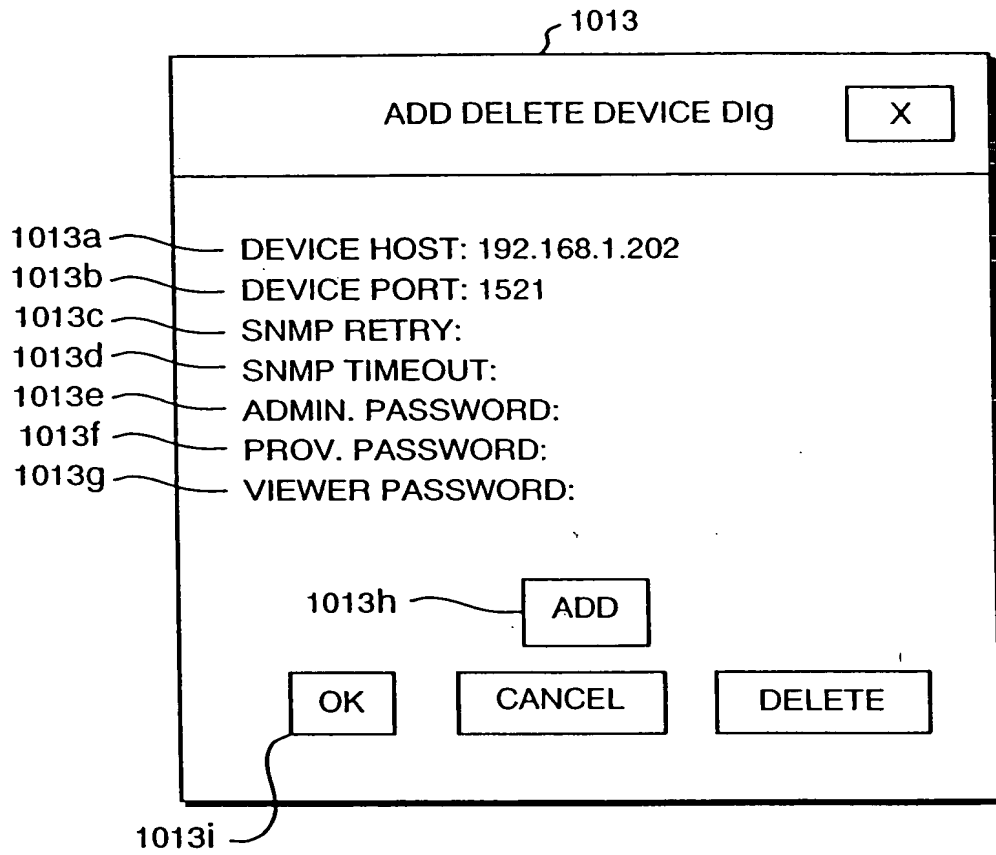


FIG. 11U



USER RESOURCE GROUP MAP TABLE 1016

1016a	1016b			1016c
	LID	USER LID	USER RESOURCE GROUP LID	
	8086	2012	1024	
	⋮	⋮	⋮	

FIG. 11V

USER RESOURCE GROUP TABLE 1018

	1018a		1018b	
	LID	HOST LID	GROUP NAME	1018c
1018d	1024	9046	WALMART-EAST	
	⋮	⋮	⋮	

FIG. 11W

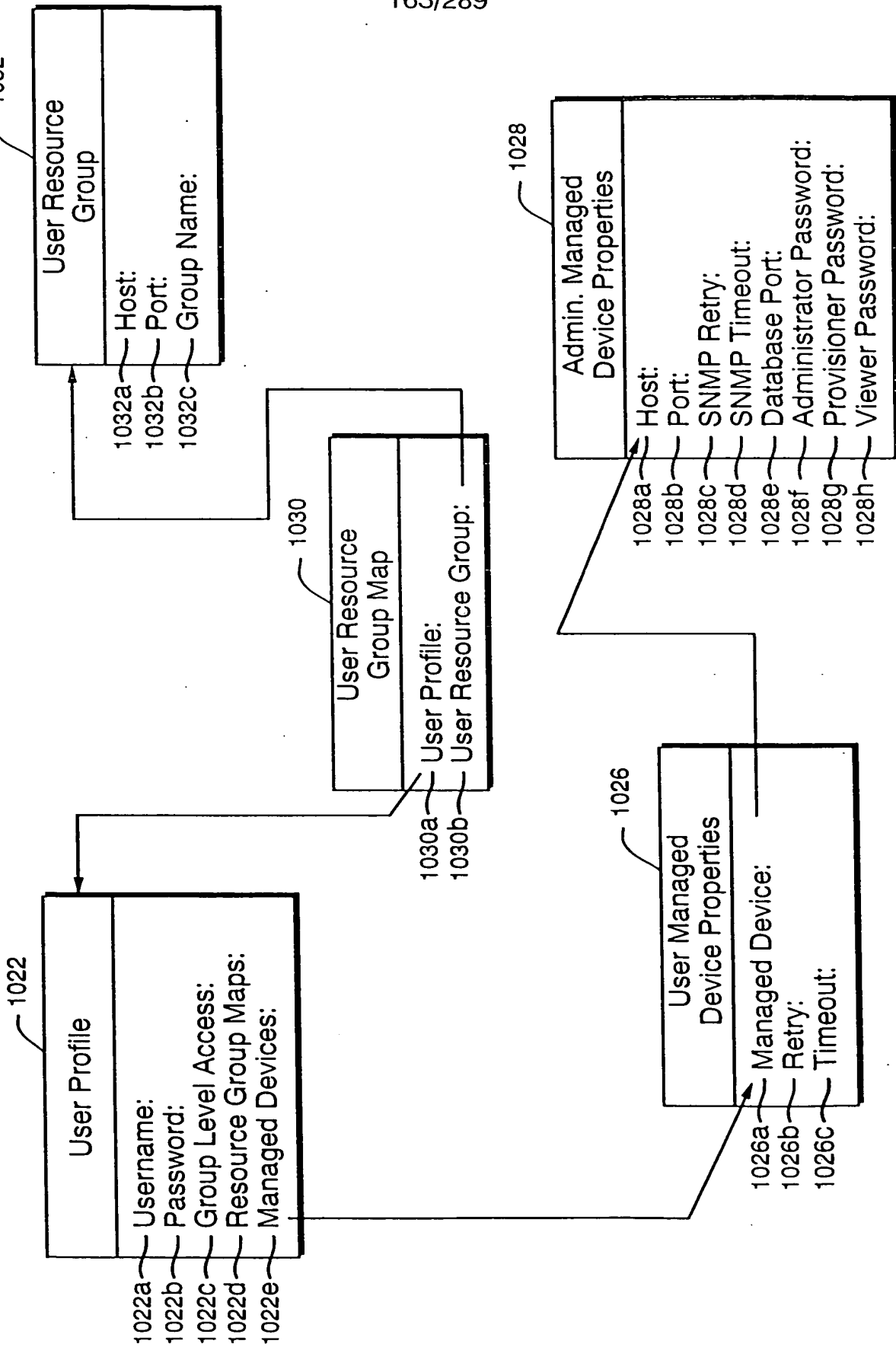
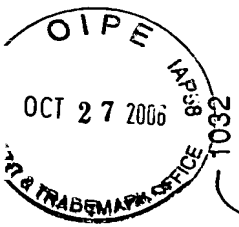


FIG. 11X

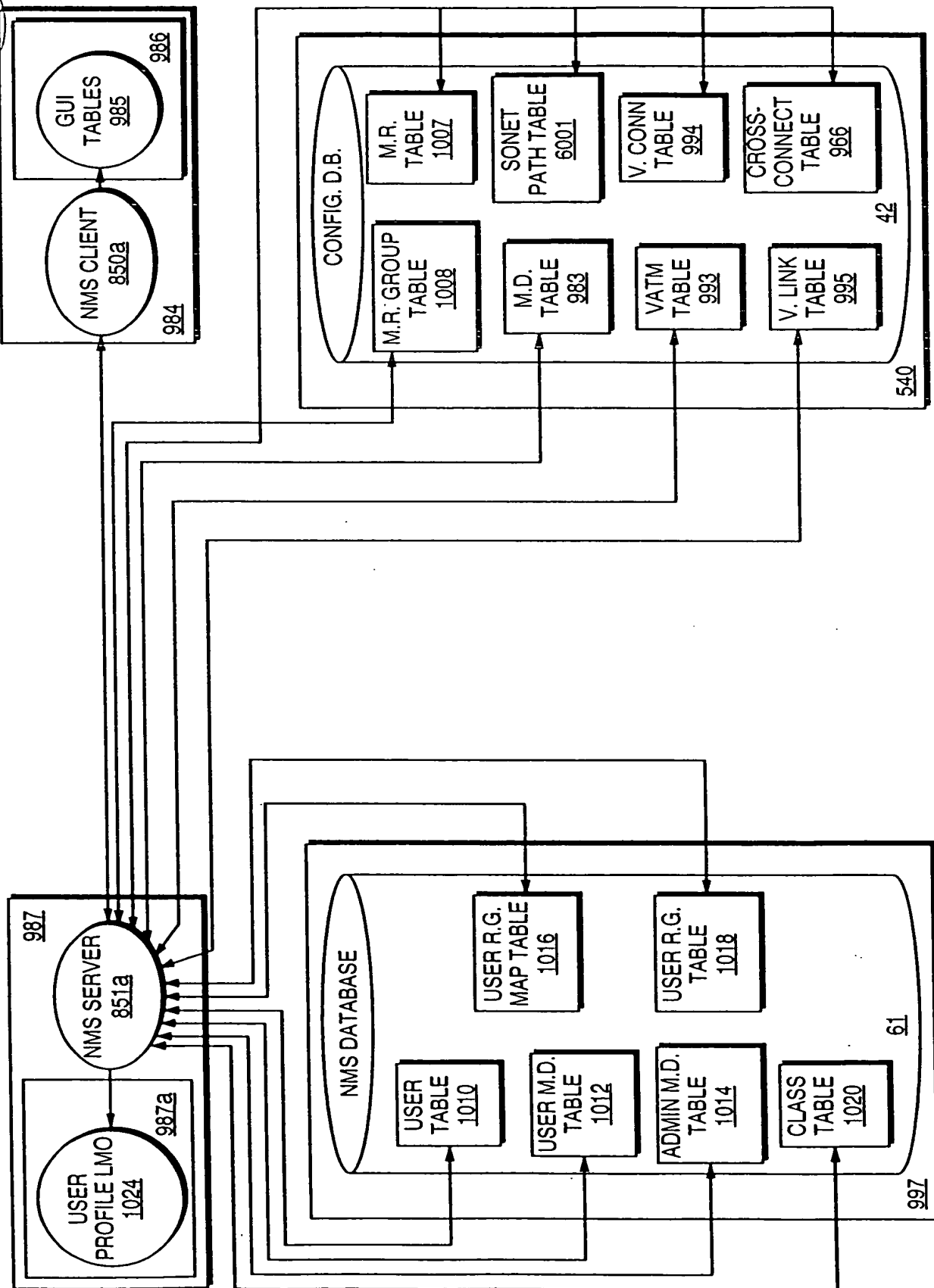


FIG. 11Y

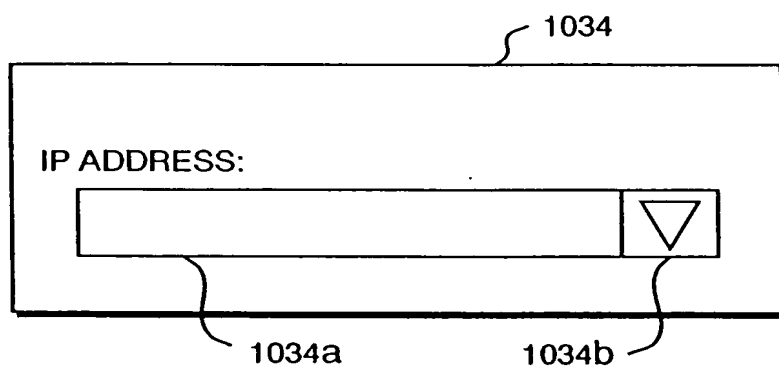


FIG. 11Z

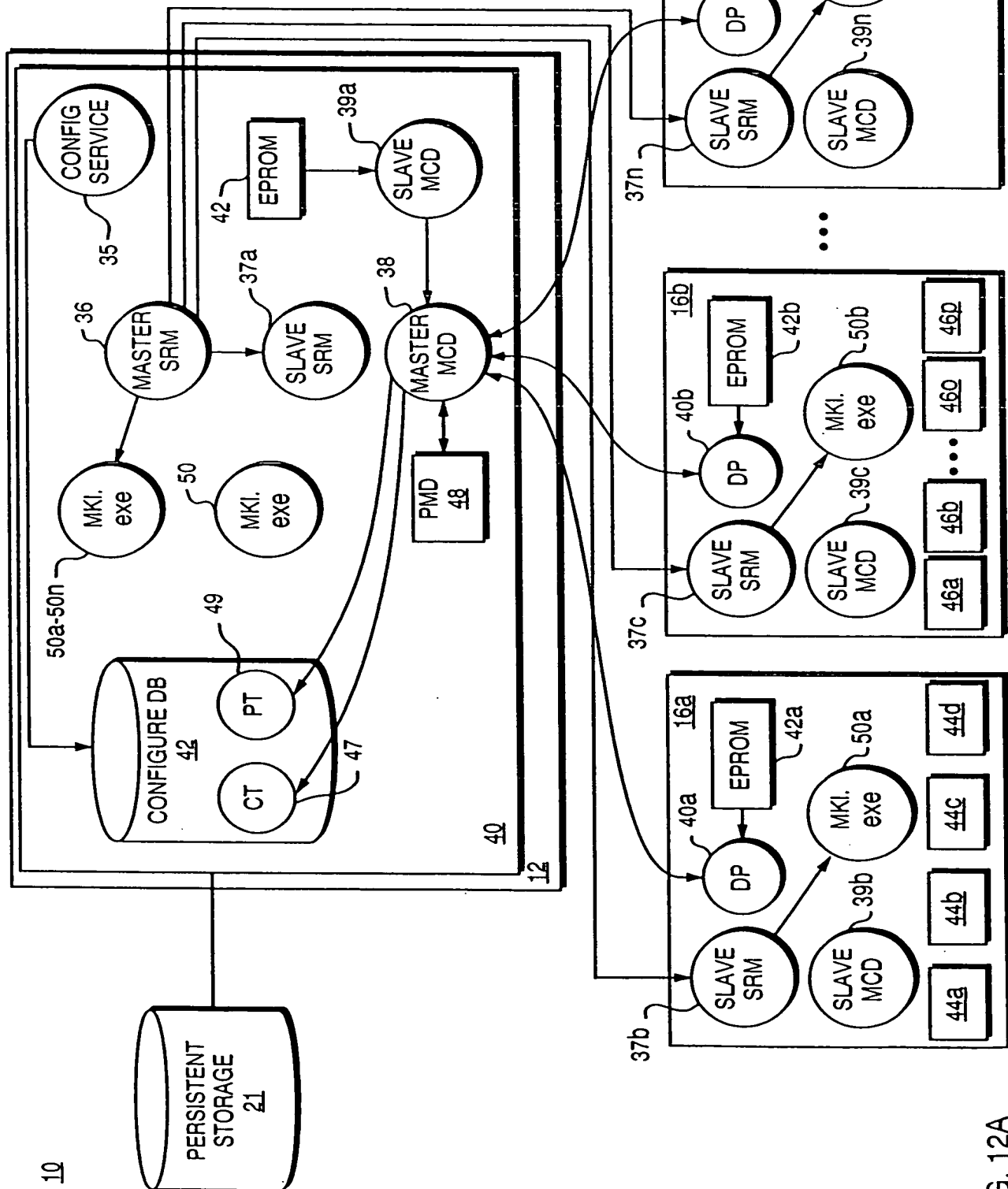


FIG. 12A



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CARD TABLE 47

	PID	CWD TYPE	VERSION NO.	SLOT NO.	...
16a	500	0XF002	3	1	
16b	501	0XF002	4	2	
	⋮	⋮	⋮	⋮	⋮
16e	505	0X6002	1	5	
	⋮	⋮	⋮	⋮	⋮
16n	513	0XF002	1	12	
	⋮	⋮	⋮	⋮	⋮

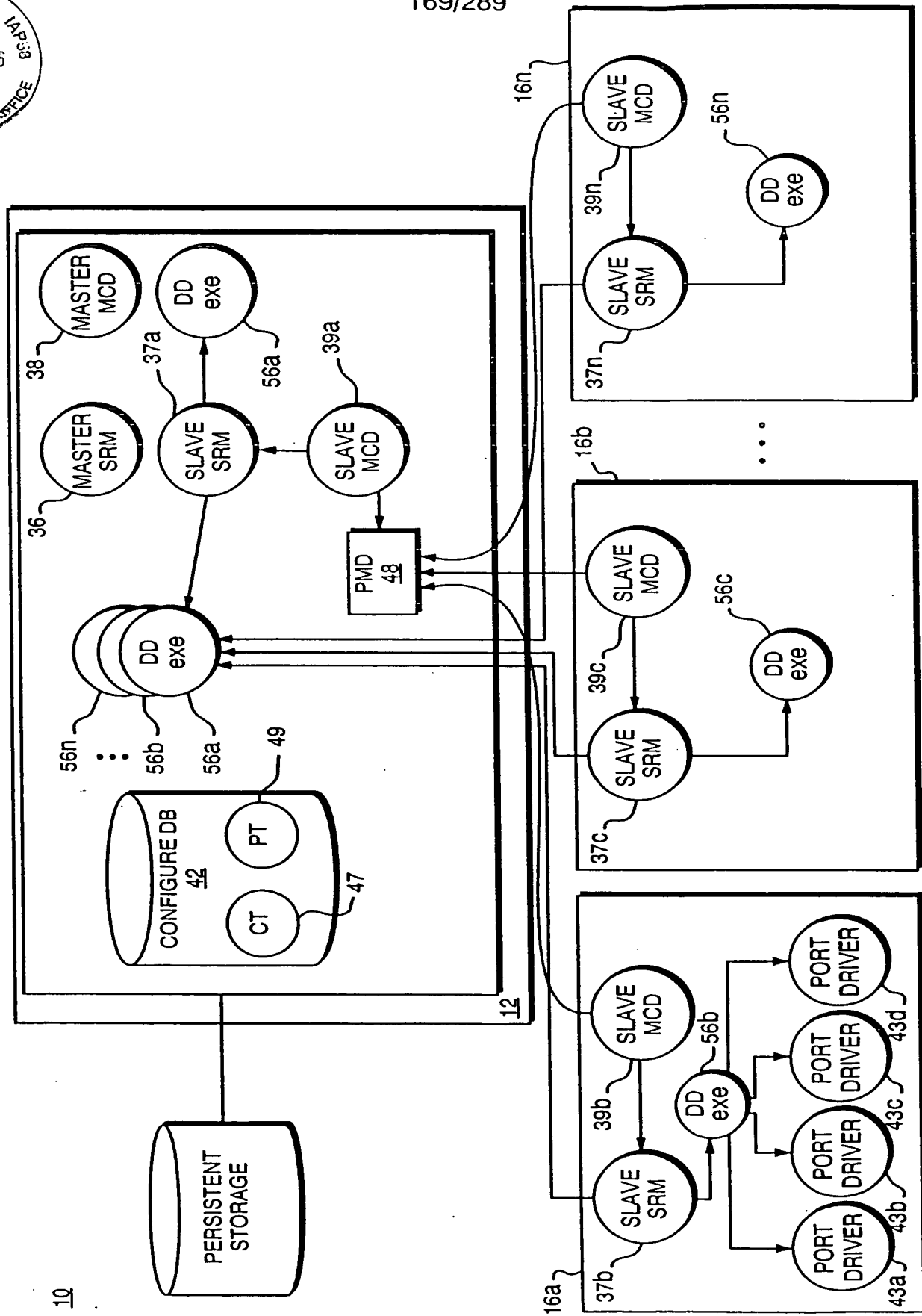
FIG. 12B

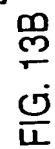


PORT TABLE 49

	PID	PORT TYPE	VERSION NO.	SLOT NO.	...
44a	1500	00620	1	1	
44b	1501	00620	1	1	
44c	1502	00620	1	1	
44d	1503	00620	1	1	
44a	1504	00820			
46a	⋮	⋮	⋮	⋮	⋮
	⋮	⋮	⋮	⋮	⋮
	⋮	⋮	⋮	⋮	⋮
	1600	00620	1	8	
	⋮	⋮	⋮	⋮	⋮
	⋮	⋮	⋮	⋮	⋮
	⋮	⋮	⋮	⋮	⋮

FIG. 12C





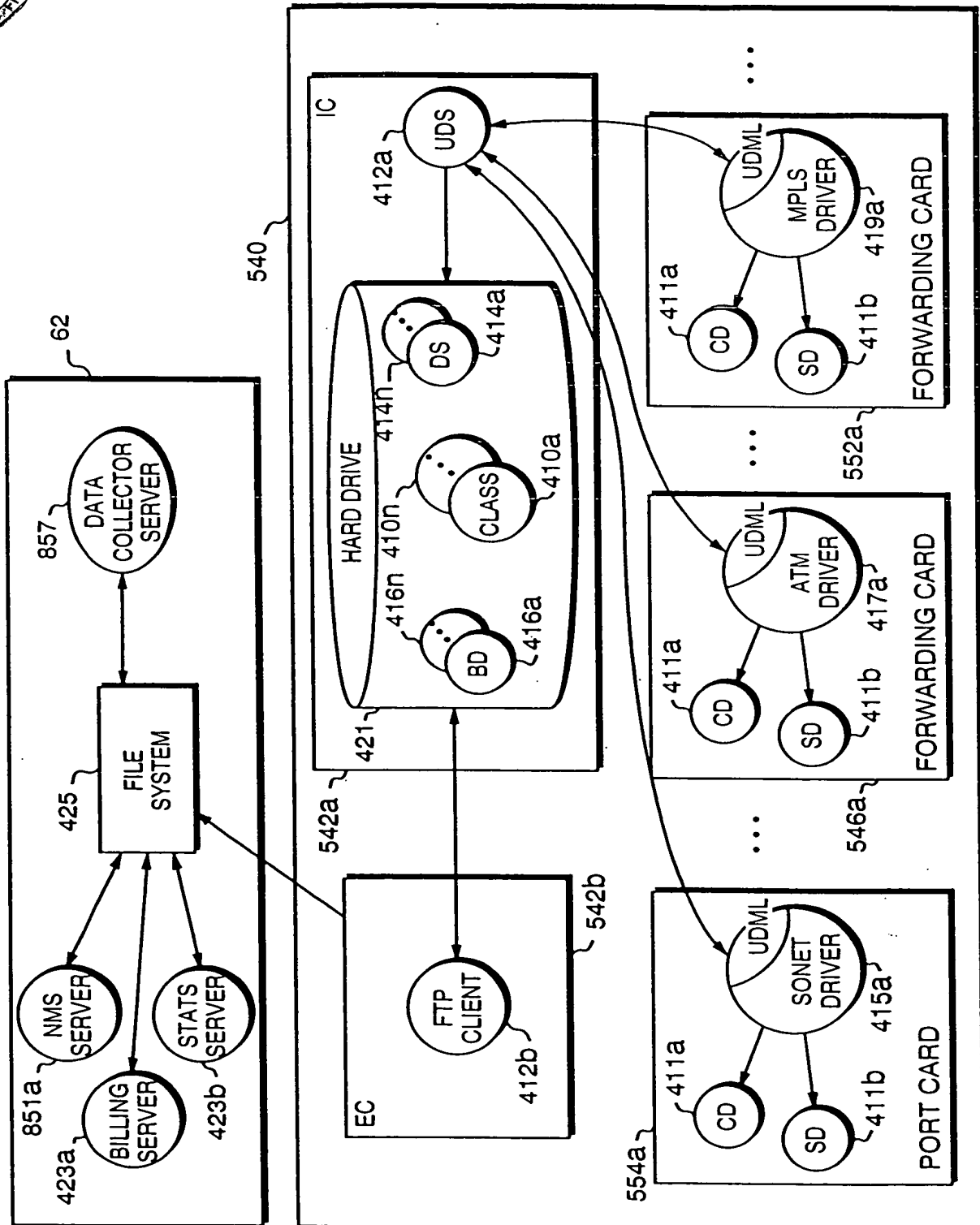
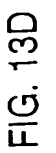


FIG. 13C





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SERVICE ENDPOINT TABLE 76

	SERVICE ENDPOINT #	PORT PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	.	.
	.	.
	.	.

FIG. 14A

LOGICAL TO PHYSICAL CARD TABLE 100

	98 LID	102 PRIMARY PID	104 BACK-UP PID
106	30	500	513
109	31	501	513
	.	.	.
	.	.	.
	.	.	.

FIG. 14B

LOGICAL TO PHYSICAL PORT TABLE 101

	98 LID	102 PRIMARY PID	104 BACK-UP PID
107	40	1500	1600
	.	.	.
	.	.	.
	.	.	.

FIG. 14C



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ATM GROUP TABLE 108

GROUP #	CARD LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 14D

ATM INTERFACE TABLE 114

ATM IF	ATM GROUP	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
.	.	.	.
.	.	.	.
.	.	.	.
12	3	10	
.	.	.	.
.	.	.	.

FIG. 14E

SOFTWARE LOAD RECORD 128a

130	CONTROL SHIM	LID	132
134	atm-cntl.exe	30	

FIG. 14F

O I P T E
 OCT 27 2006
 TRADEMARK OFFICE

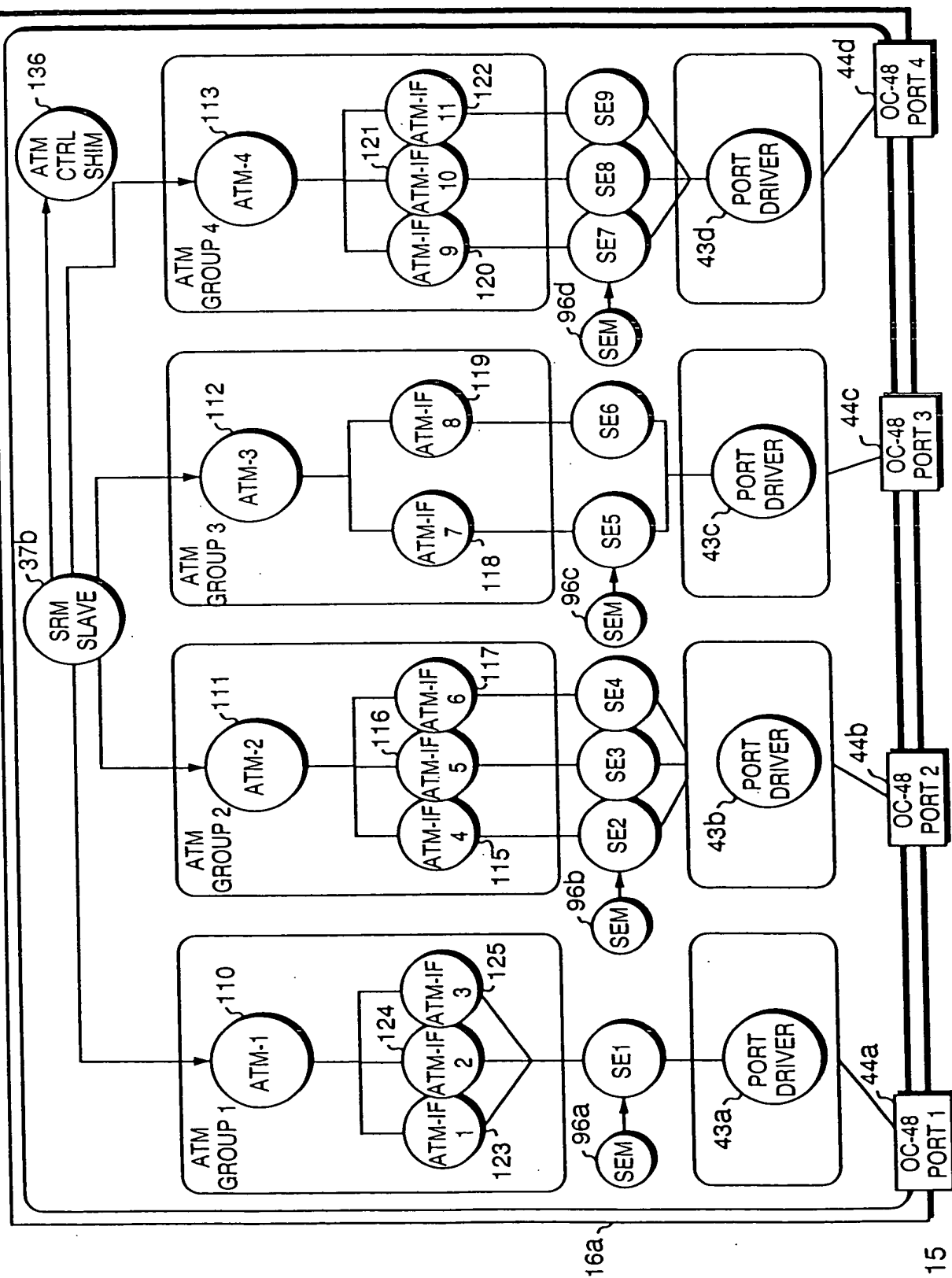


FIG. 15

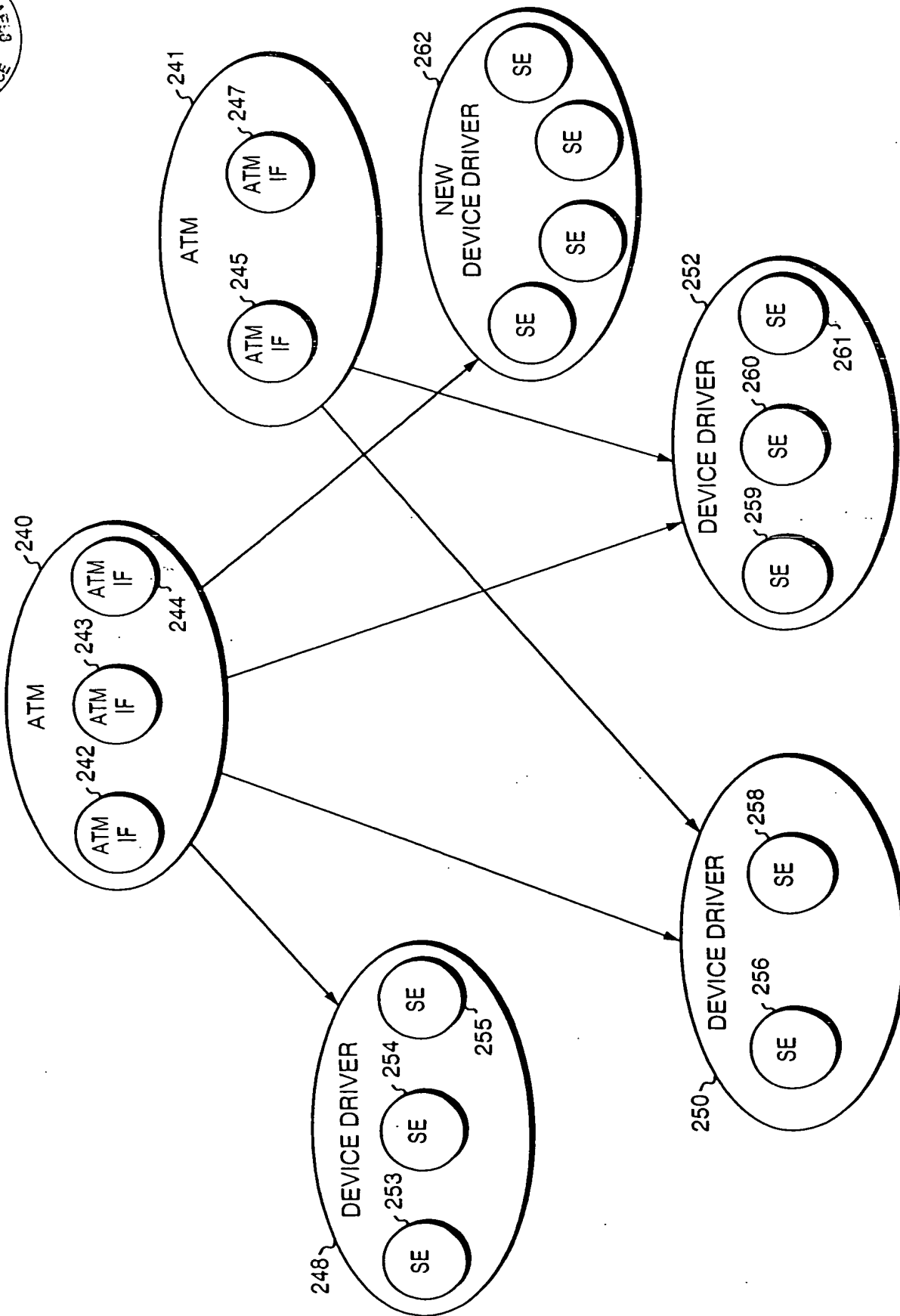


FIG. 16A



O I P E
OCT 27 2066
PATENT & TRADEMARK OFFICE

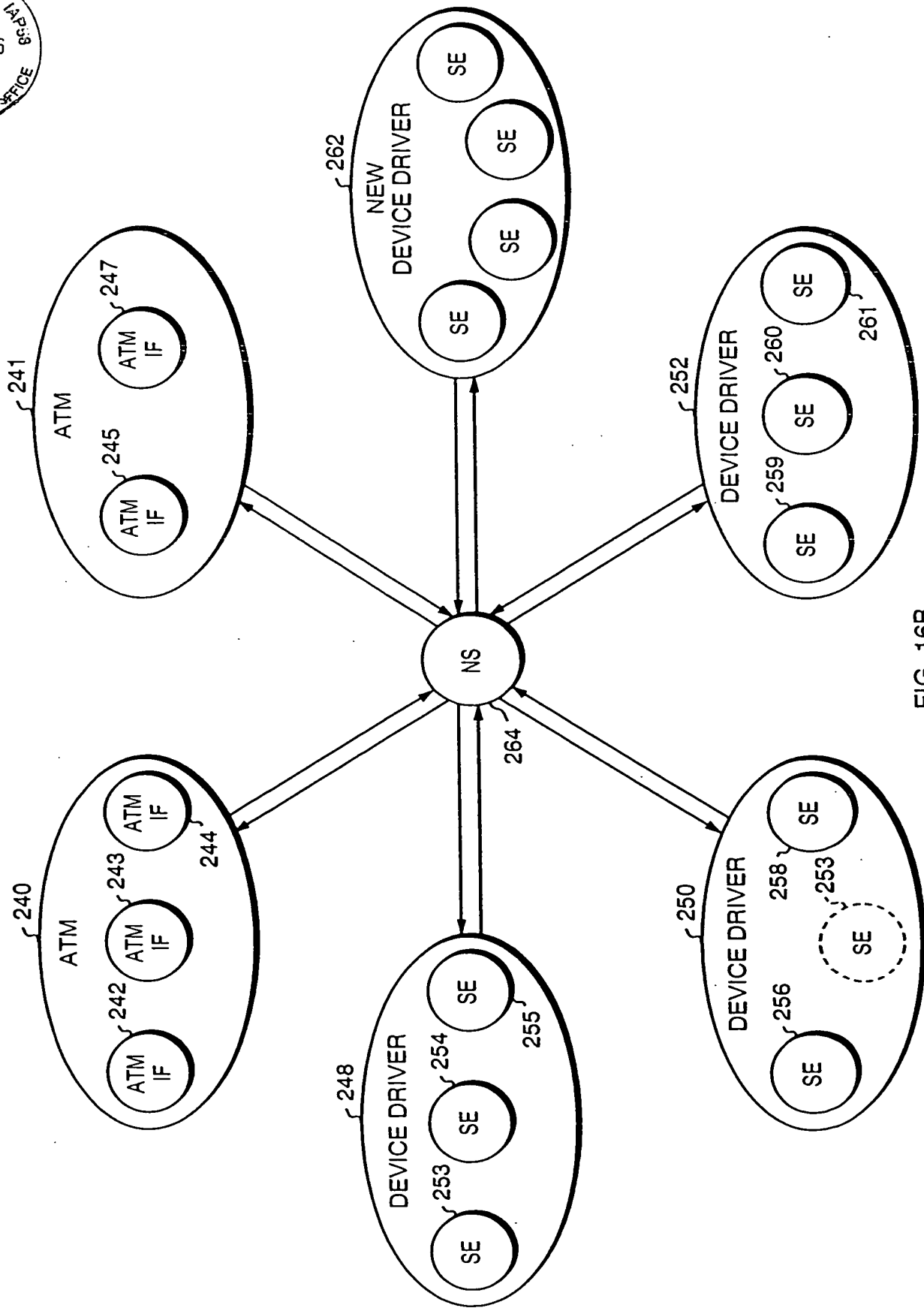


FIG. 16B

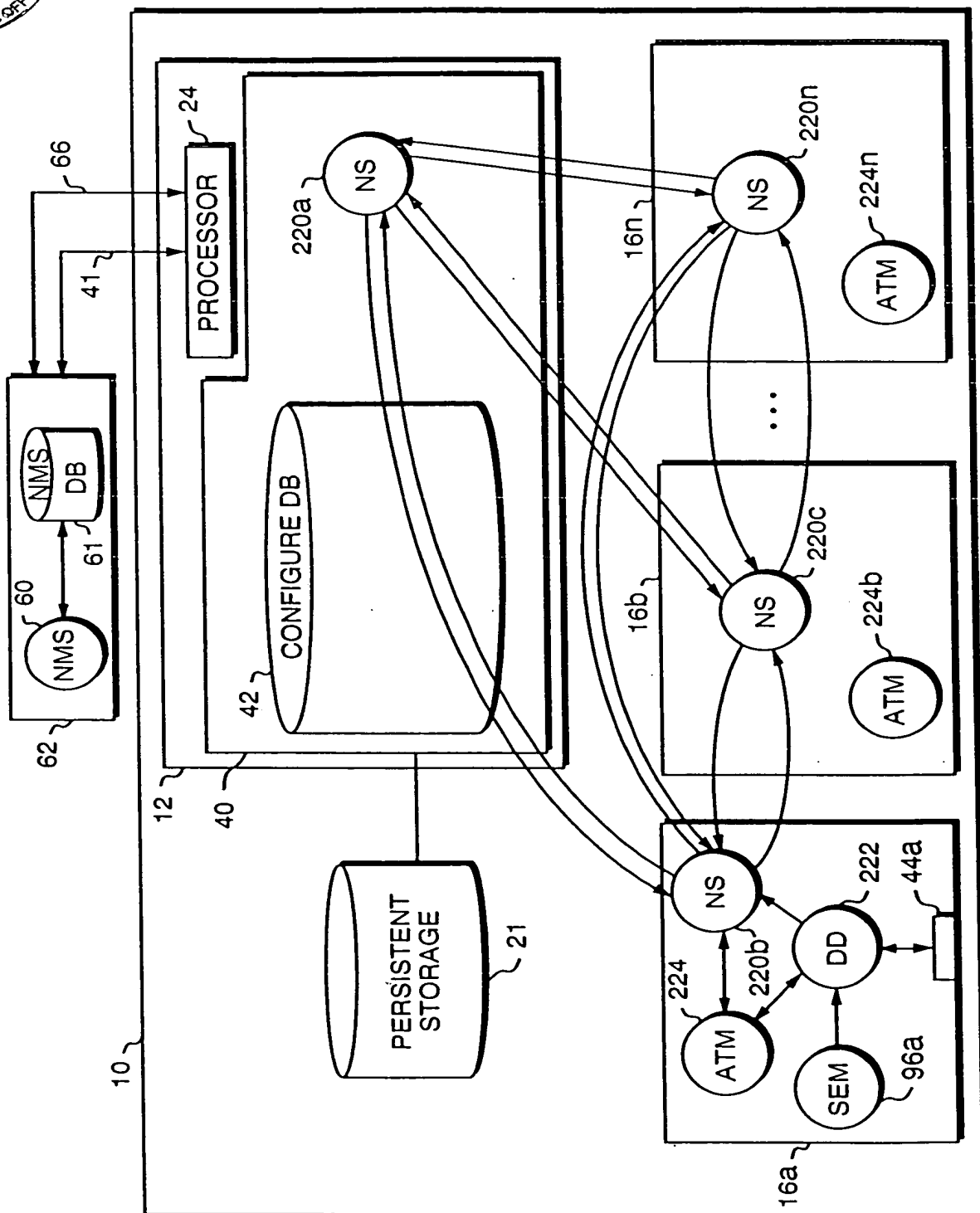


FIG. 16C



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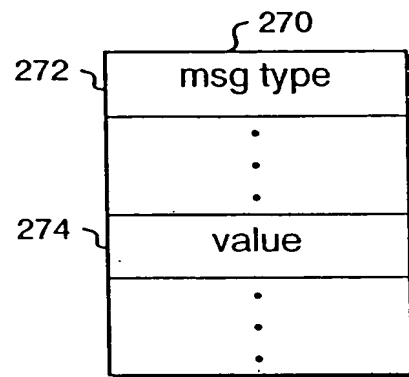


FIG. 16D

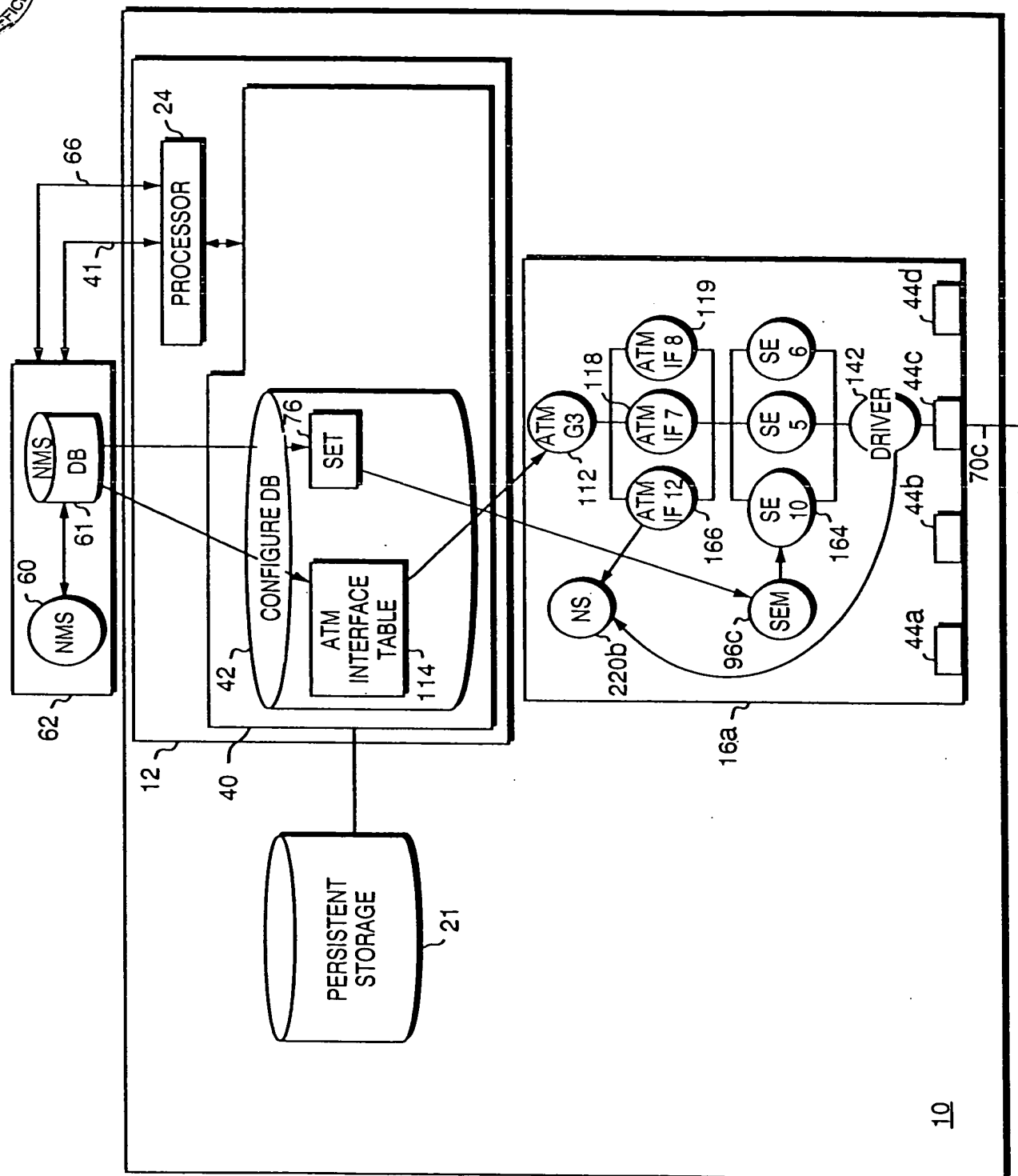


FIG. 17

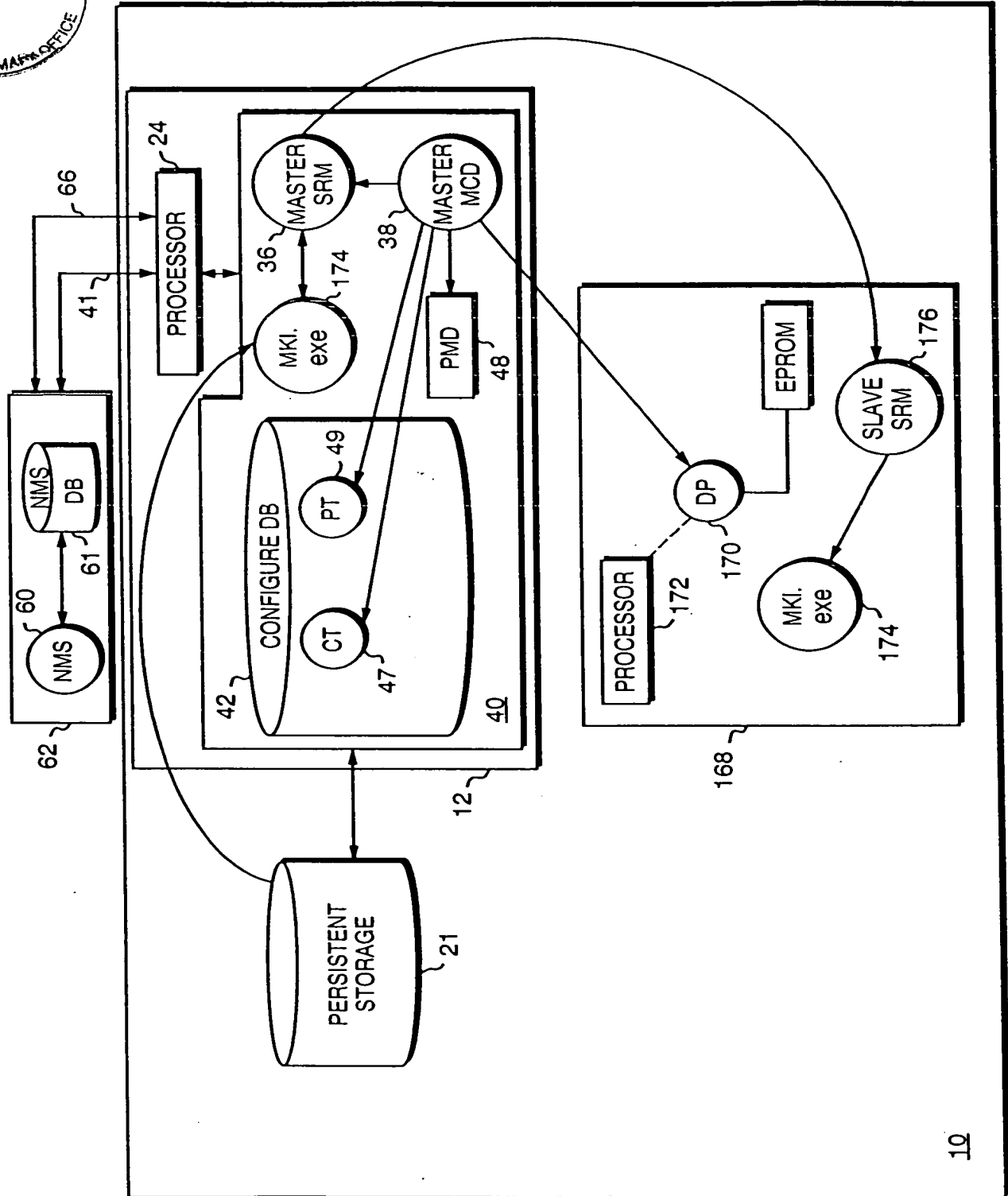


FIG. 18

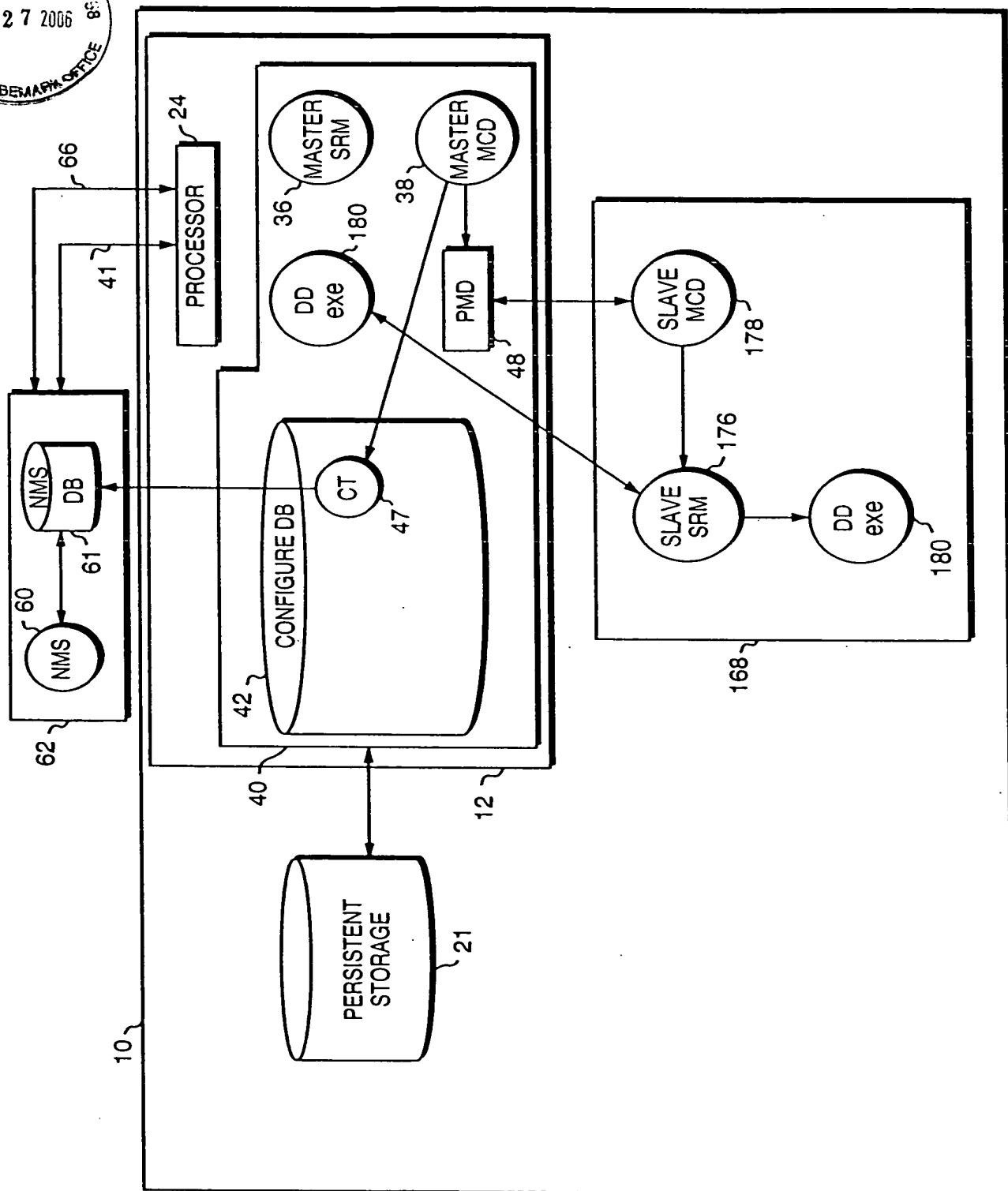


FIG. 19

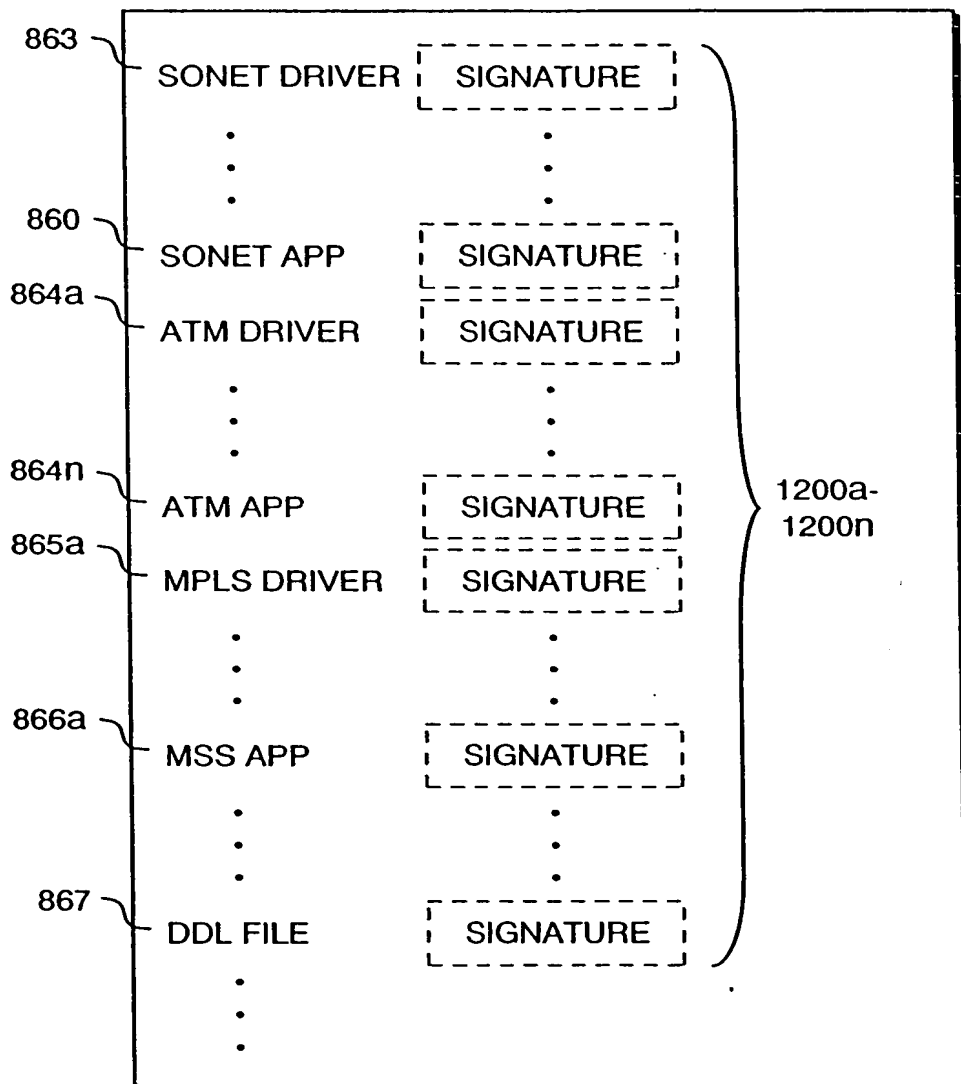
PACKAGING LIST 1200

FIG. 20A

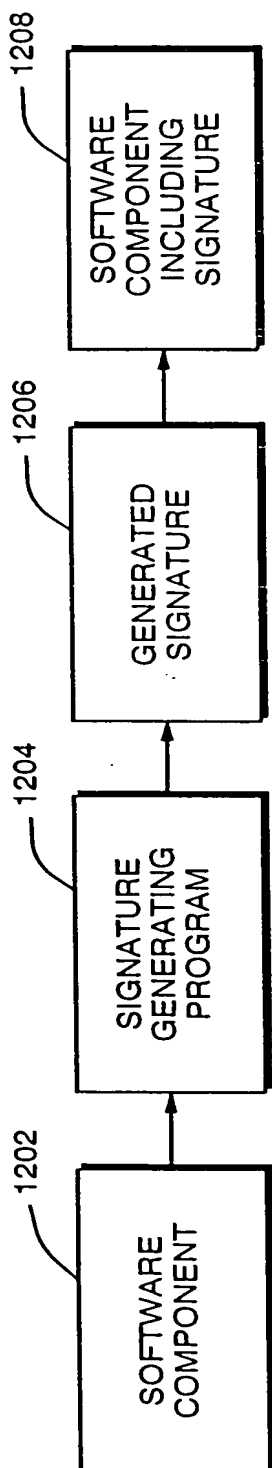


FIG. 20B

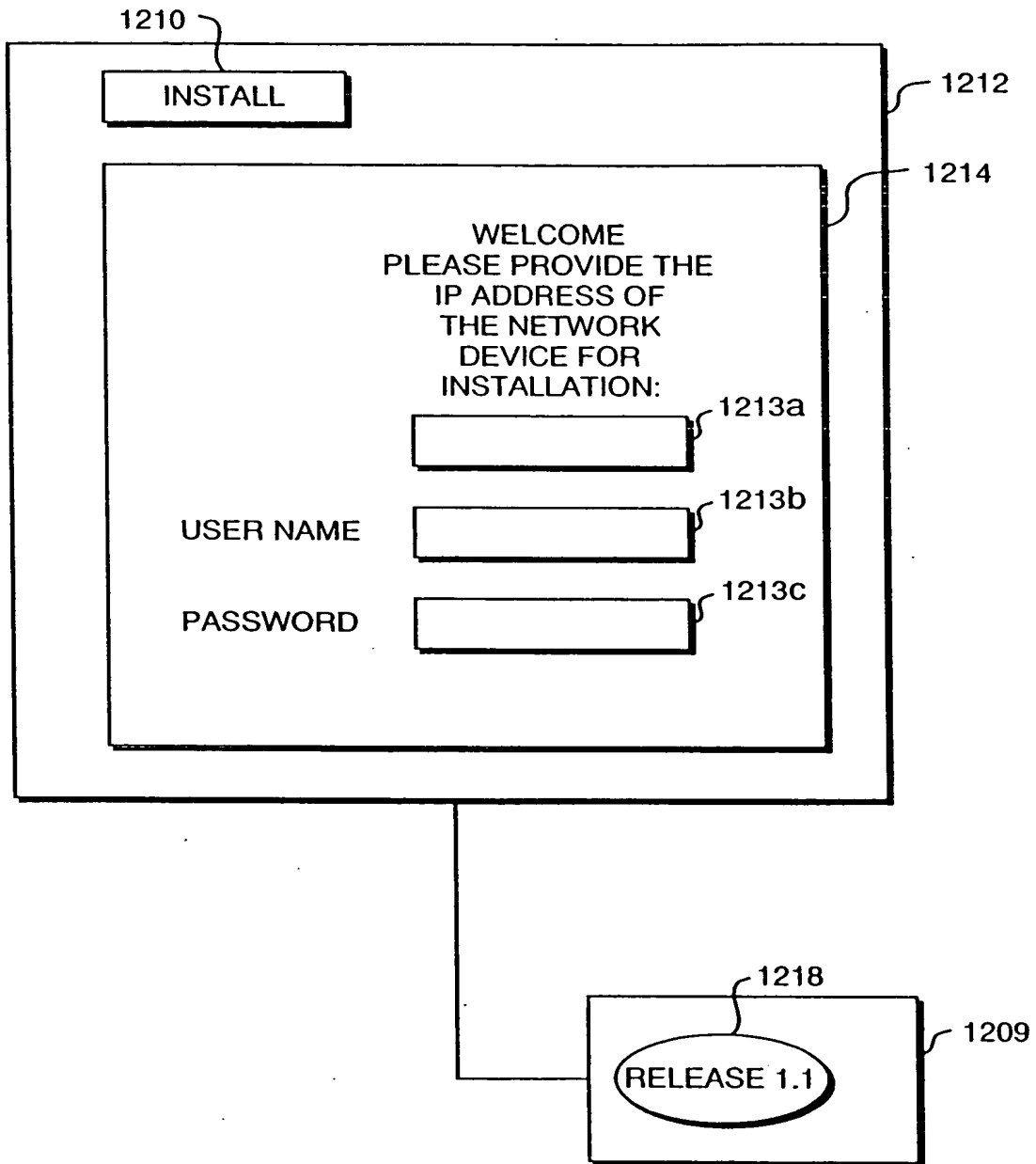


FIG. 20C

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PATENT OFFICE

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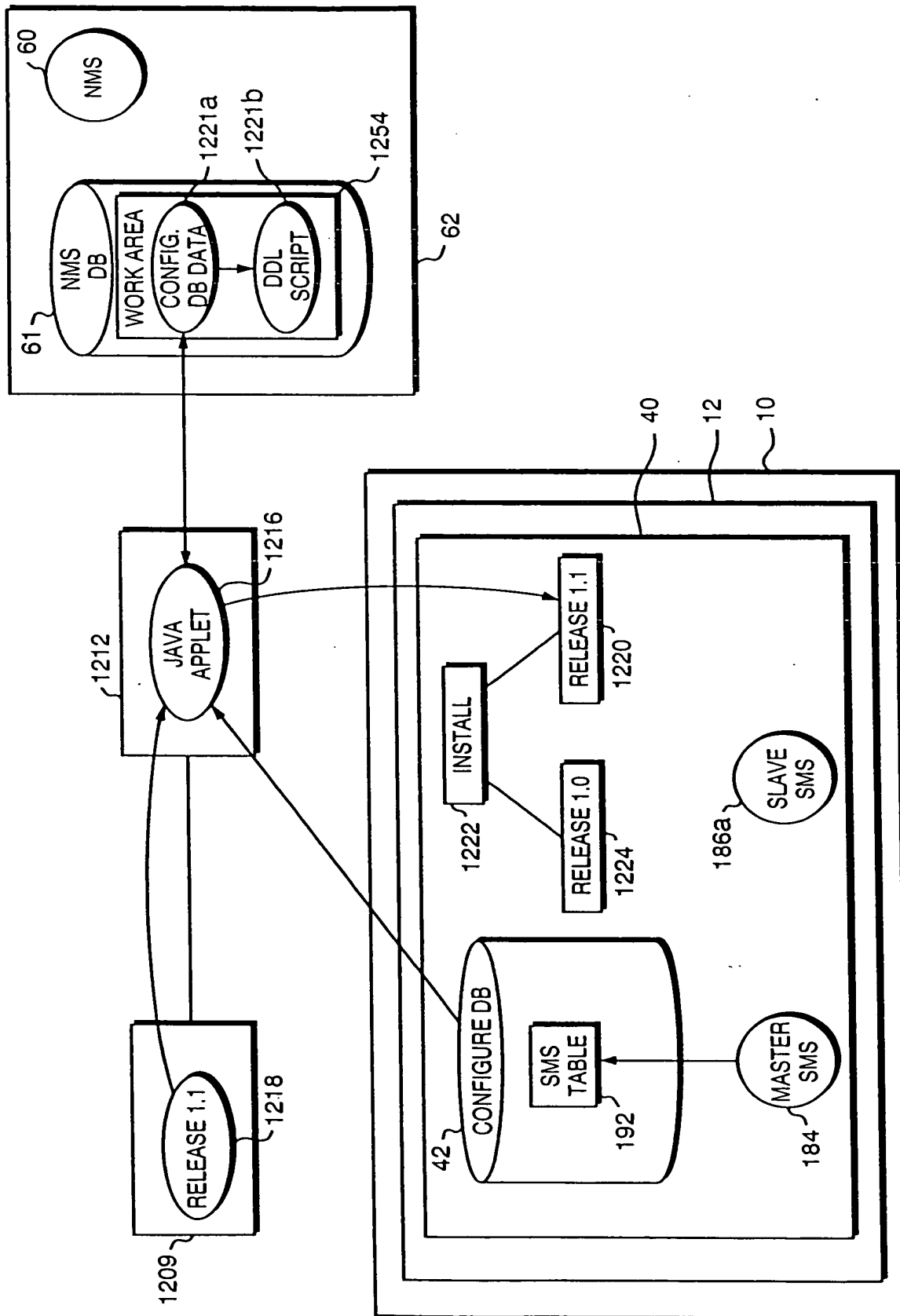


FIG. 20D

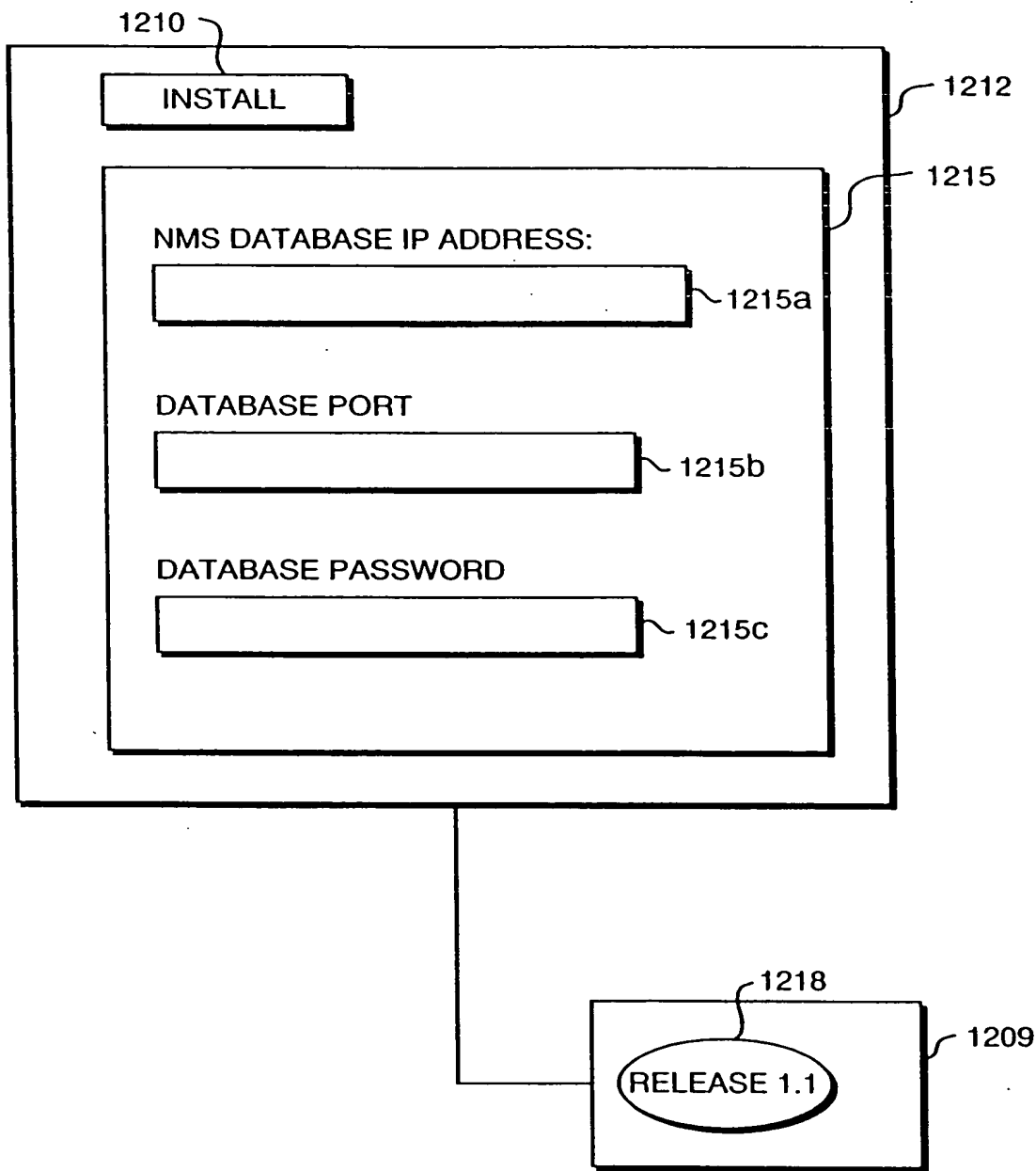


FIG. 20E

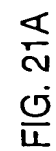
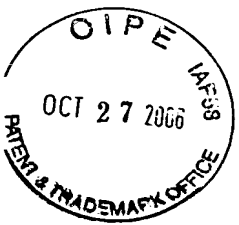


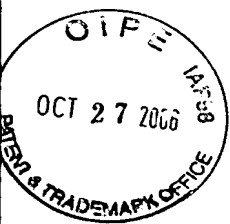
FIG. 21A



SMS TABLE 192

1227	1226		1228		1230	
	IMAGE LID	VERIFICATION STATUS	UPGRADE MODES	...		
	9623	PASSED	x2348	...		
	⋮	⋮	⋮	⋮		

FIG. 21B



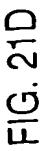
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1232

AVAILABLE RELEASES	
RELEASE 1.0	
RELEASE 1.1	

1230

FIG. 21C





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A rectangular menu box titled "IMAGE CONTROL". It contains three options, each with a checkbox and a label. To the left of the menu, three reference numerals (1238, 1239, 1240) are connected by lines to the checkboxes. To the right of the menu, a reference numeral (1236) is connected by a line to the right edge of the box.

IMAGE CONTROL	
<input type="checkbox"/>	DELETE
<input type="checkbox"/>	RE-VERIFY
<input type="checkbox"/>	INSTALL

FIG. 21E

A rectangular menu box titled "UPGRADE MODE". It contains five options, each with a checkbox and a label. Below the fifth option are three vertical dots. Below the dots is a checkbox followed by the text "TIME FOR INSTALLATION" and a rectangular input field. To the left of the menu, five reference numerals (1243, 1244, 1245, 1246, 1247) are connected by lines to the checkboxes. To the right of the menu, a reference numeral (1242) is connected by a line to the right edge of the box. A reference numeral (1249) is connected by a line to the input field.

UPGRADE MODE	
<input type="checkbox"/>	HOT
<input type="checkbox"/>	COLD
<input type="checkbox"/>	ENTIRE CHASSIS
<input type="checkbox"/>	BOARD-BY-BOARD
<input type="checkbox"/>	PATH-BY-PATH
.	
.	
.	
<input type="checkbox"/>	TIME FOR INSTALLATION

FIG. 21F



UPGRADE CONTROL TABLE 1248

		1252	1253	1255	
1250	IMAGE LID	COMMAND	TIME FOR INSTALLATION	STATUS	...
1251	9623	X2344			...
	⋮	⋮	⋮	⋮	⋮

FIG. 21G

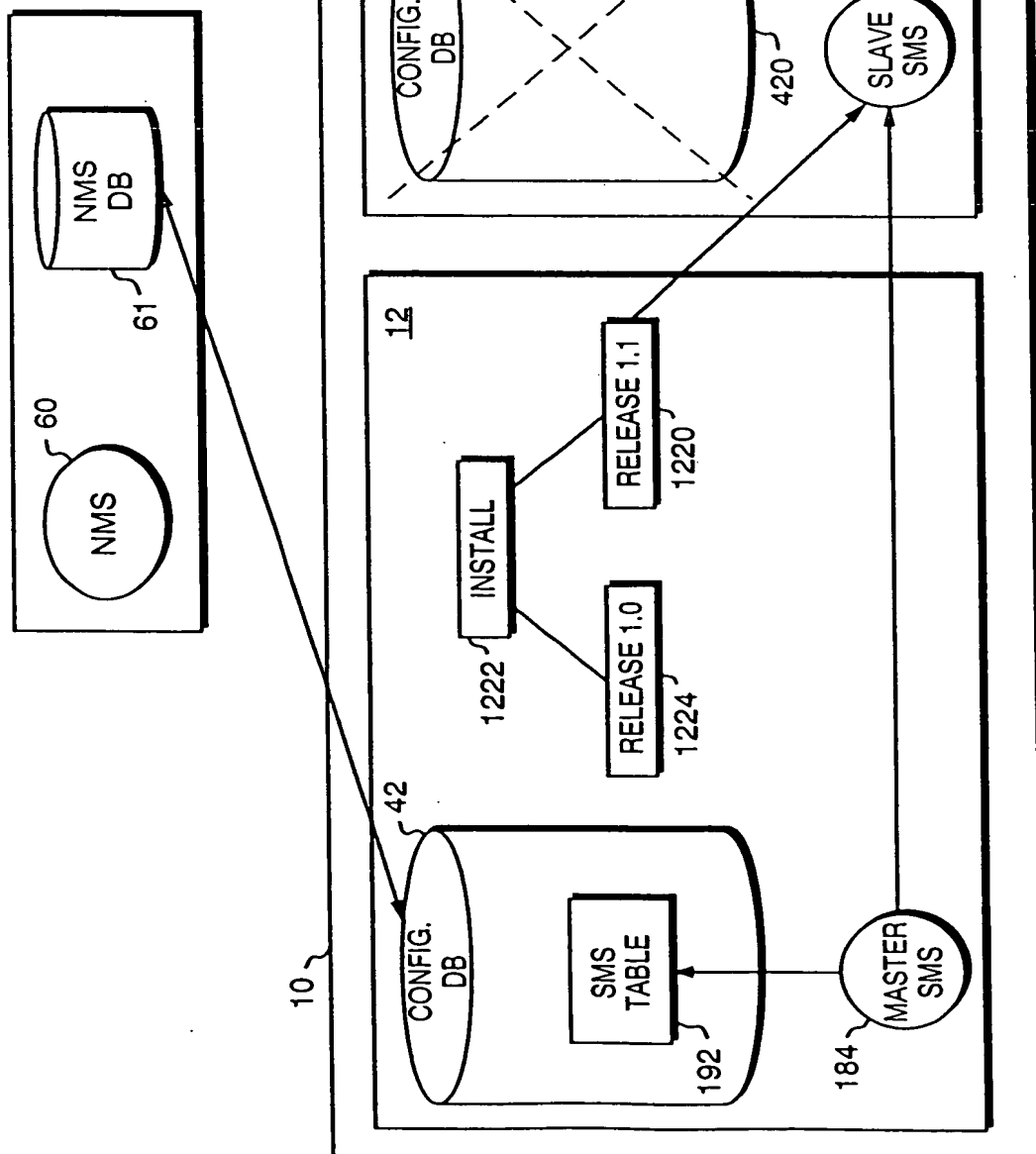


FIG. 22

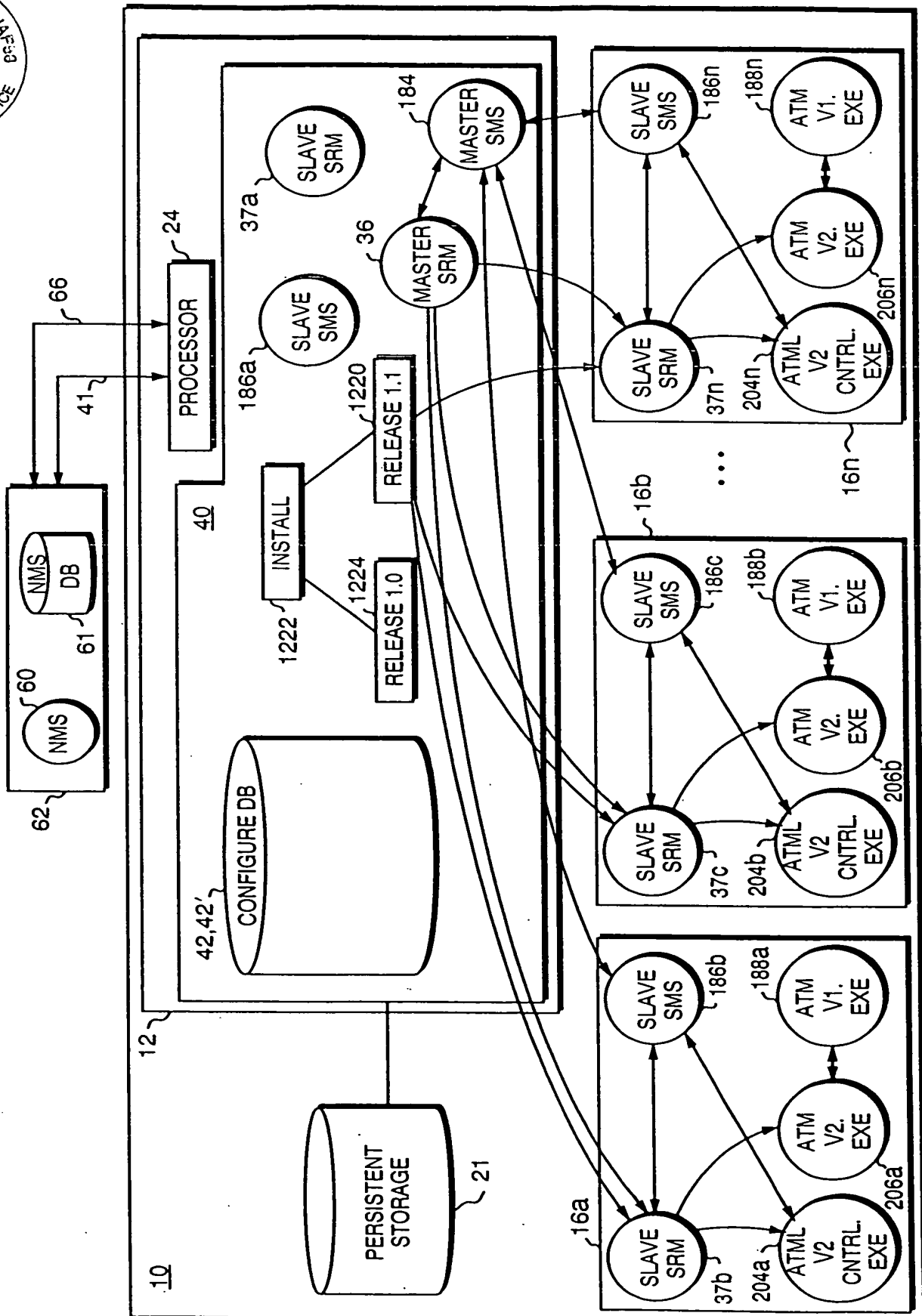


FIG. 23

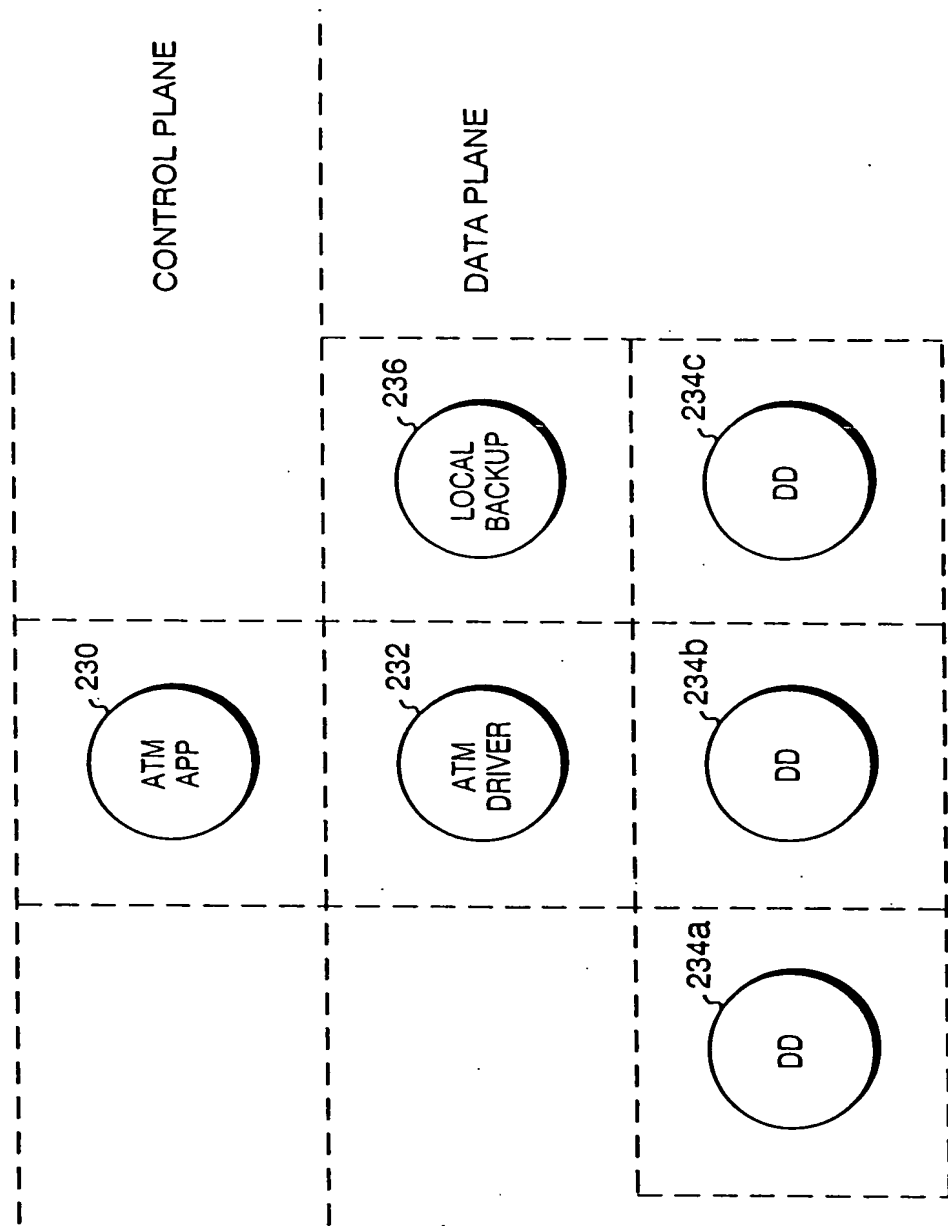


FIG. 24

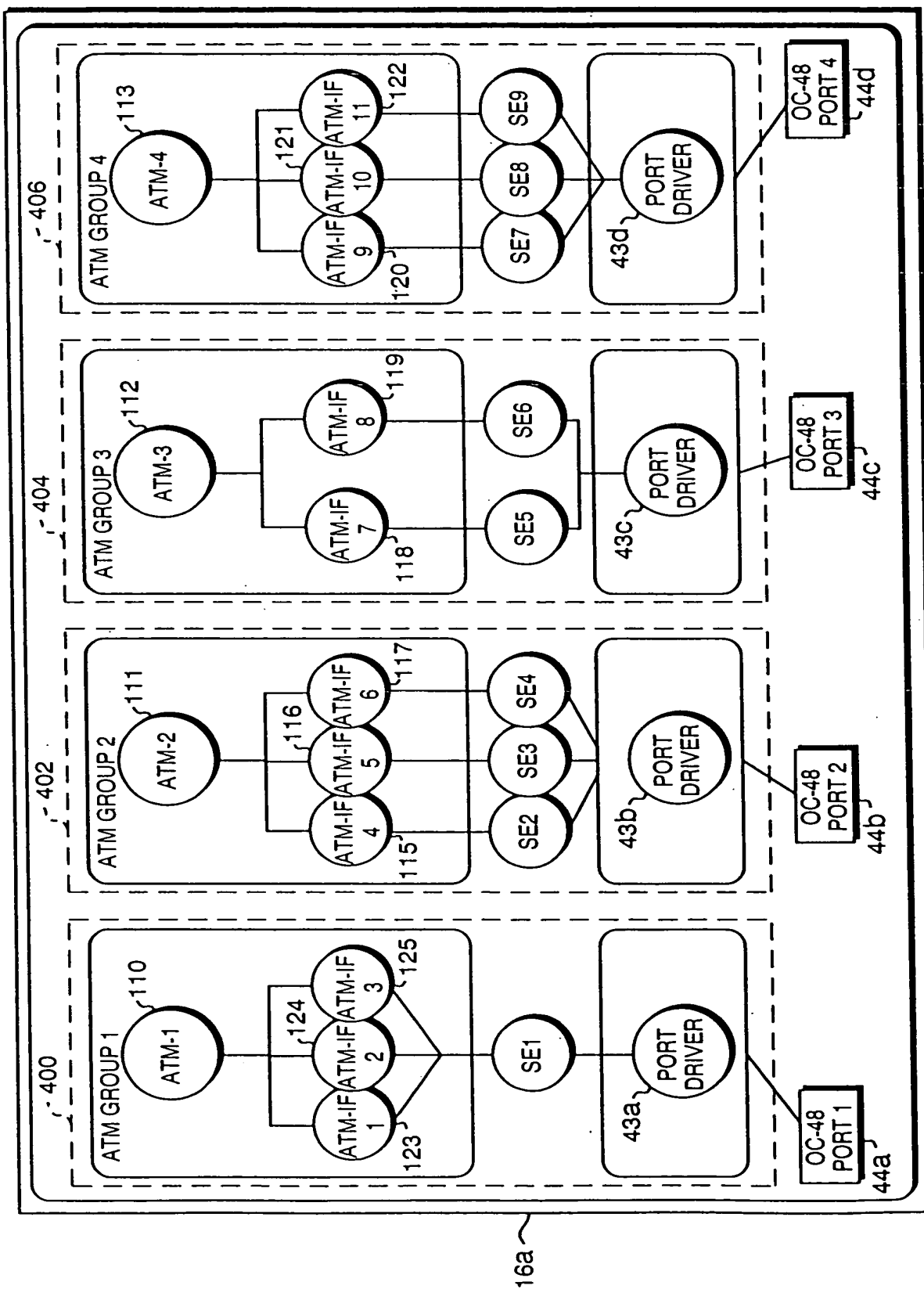


FIG. 25



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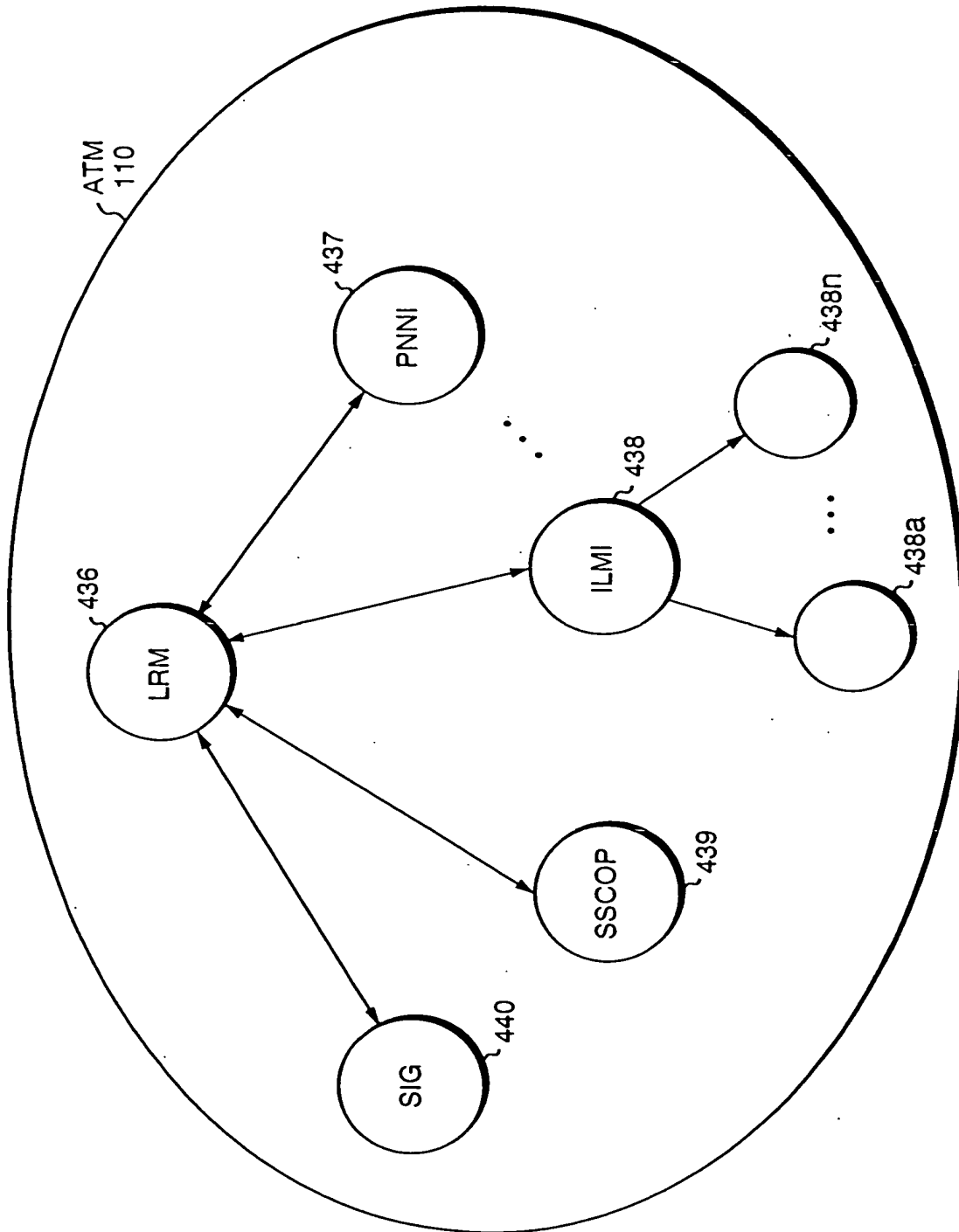


FIG. 27



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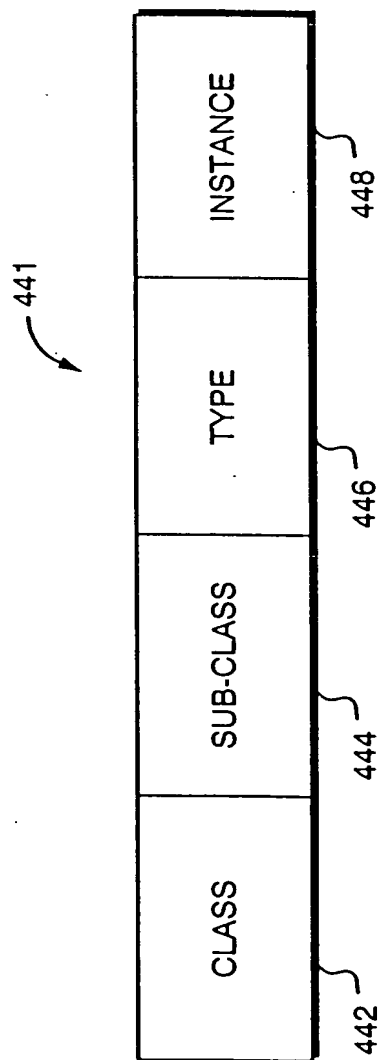
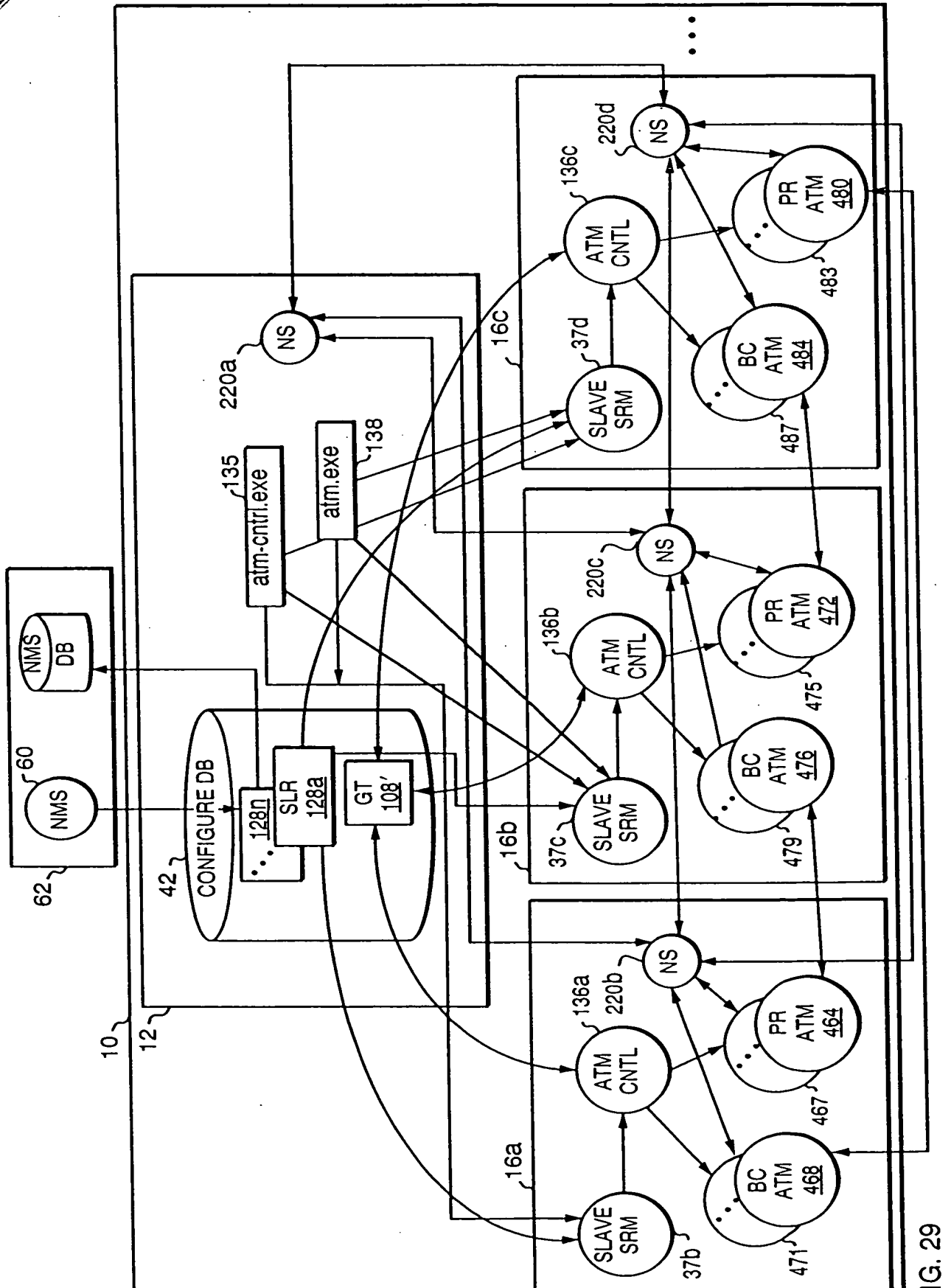


FIG. 28

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GROUP TABLE 108'

		447		449	
	GROUP #	PRIMARY CARD LID	BACKUP CARD LID	...	
450	1	30	31		
451	2	30	31		
452	3	30	31		
453	4	30	31		
454	5	31	32		
455	6	31	32		
456	7	31	32		
457	8	31	32		
458	9	32	30		
459	10	32	30		
460	11	32	30		
461	12	32	30		
	
	
	

FIG. 30

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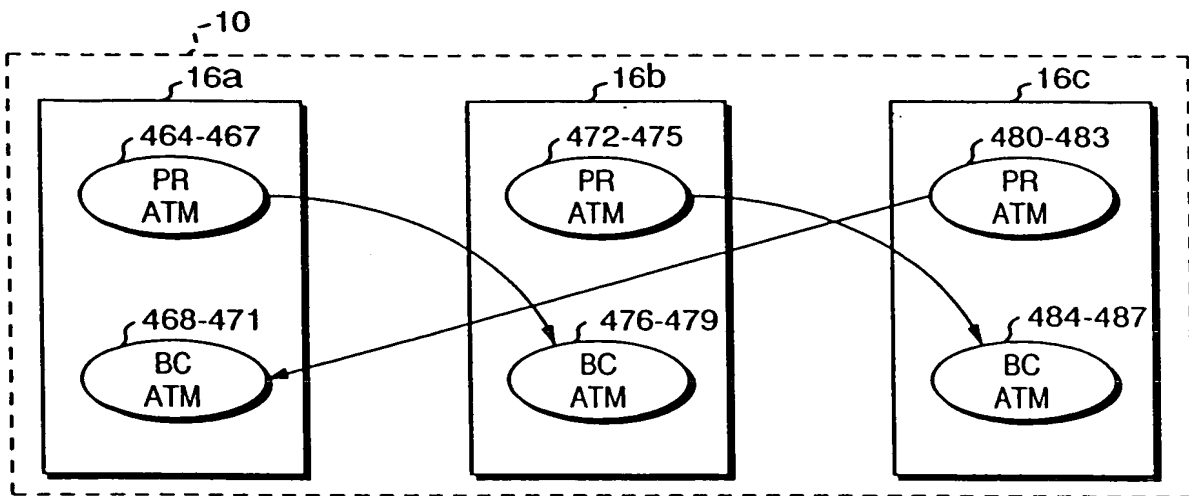


FIG. 31A

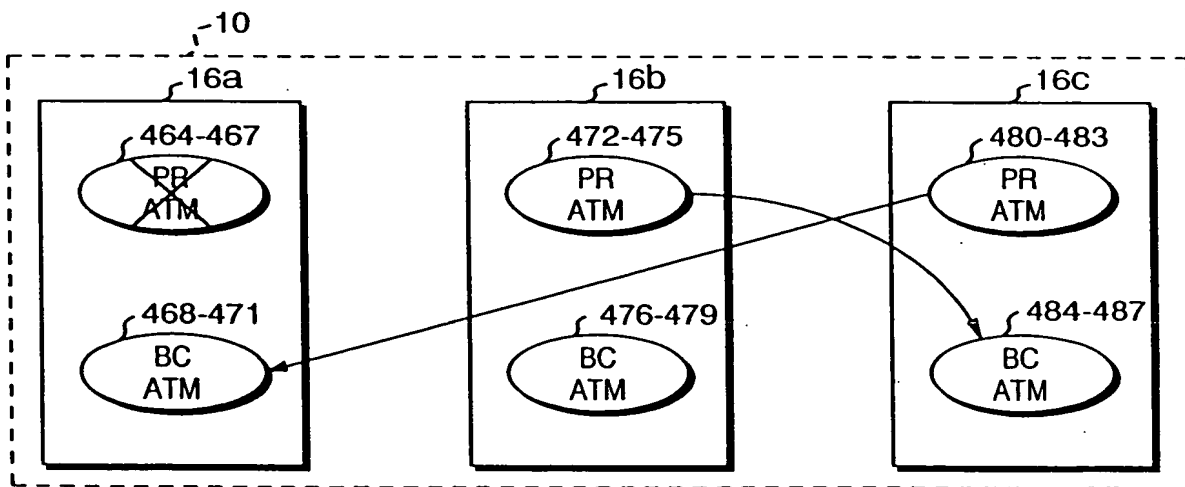
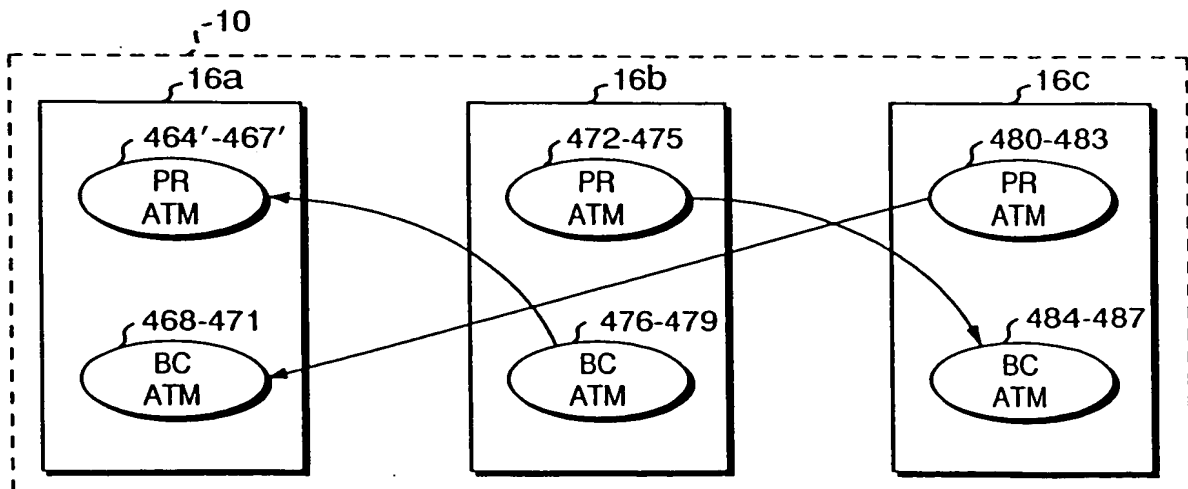


FIG. 31B



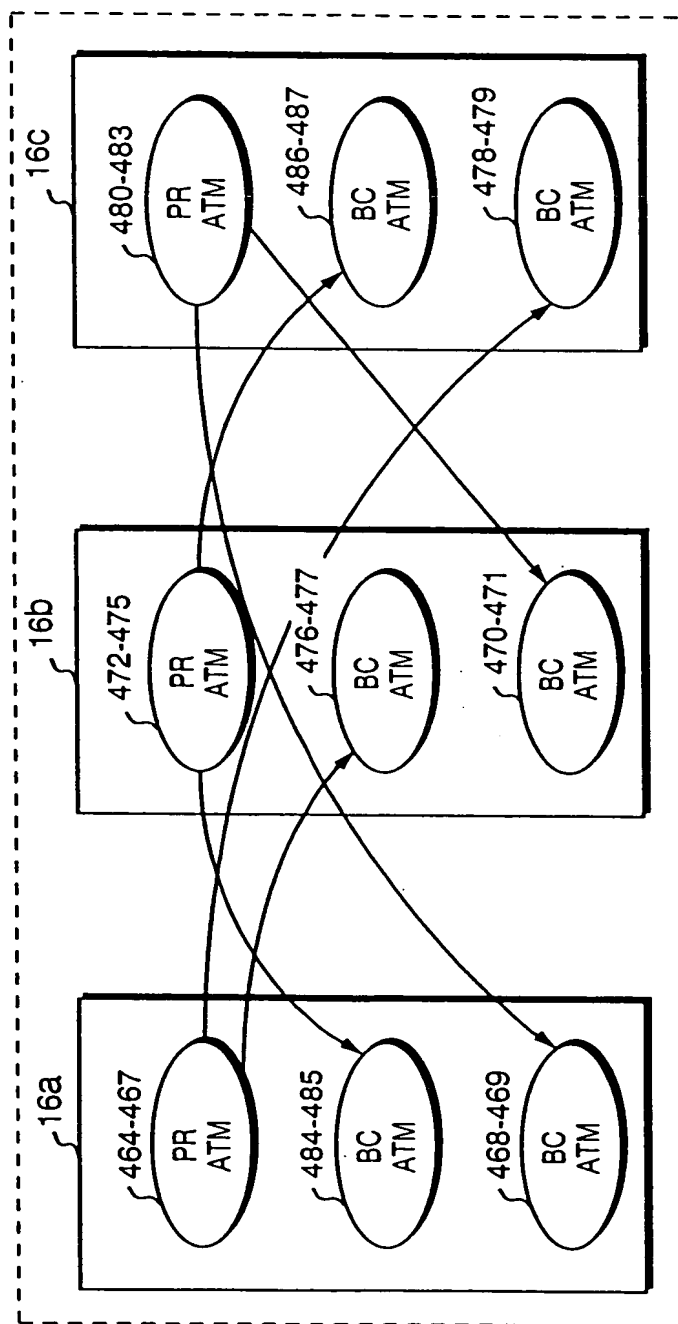


FIG. 32A



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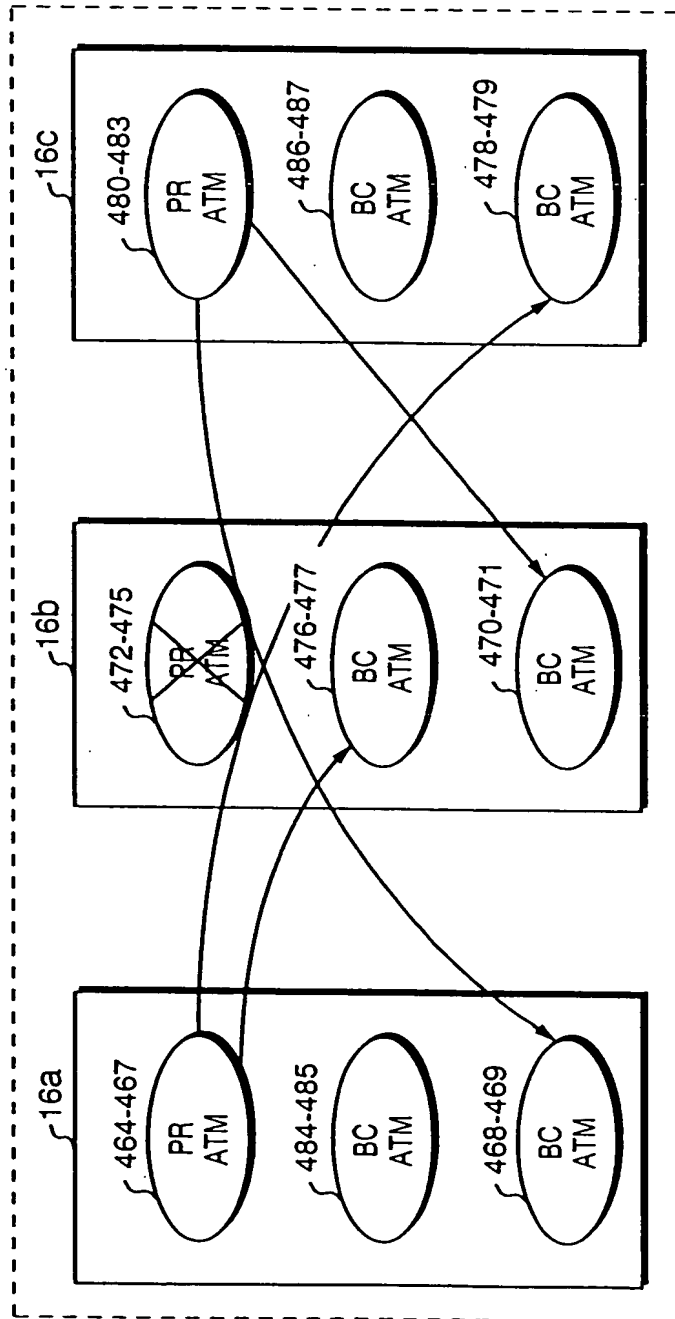


FIG. 32B

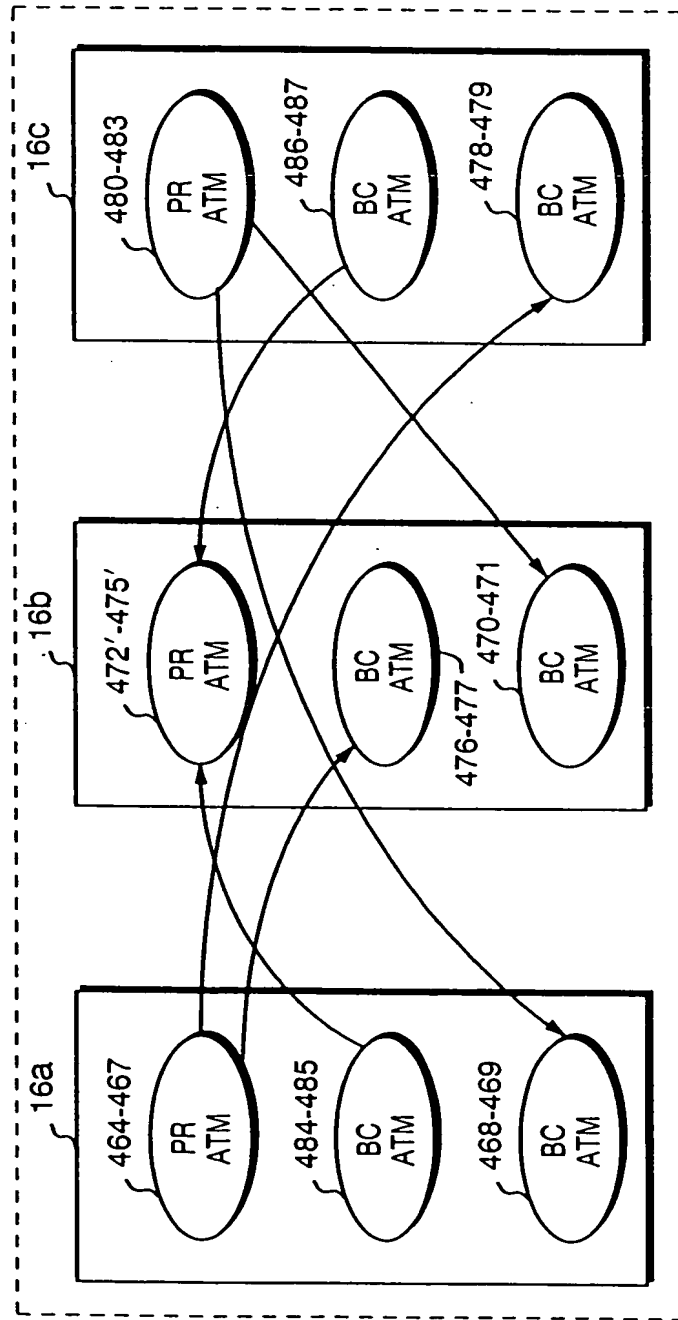


FIG. 32C

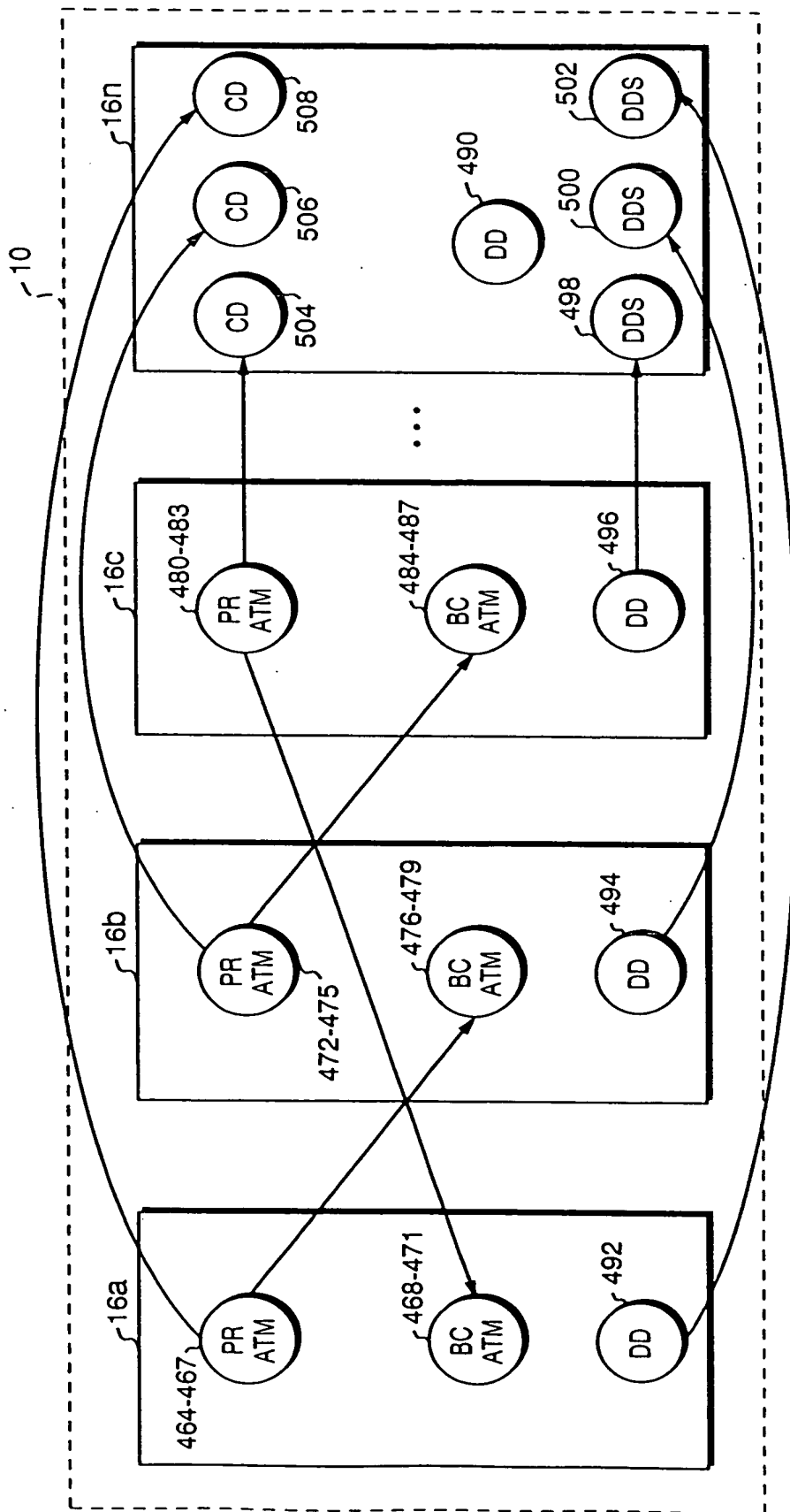


FIG. 33A

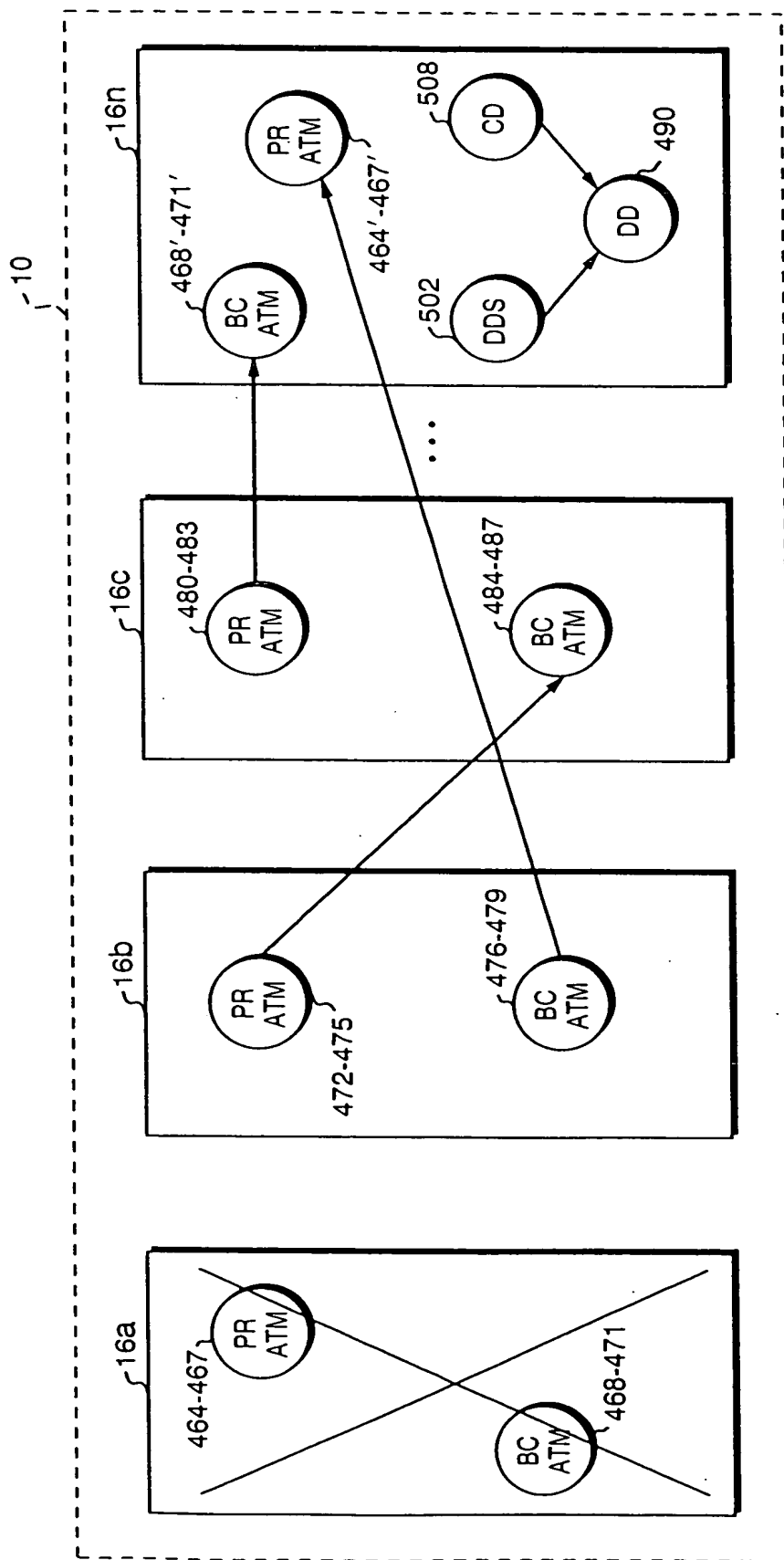


FIG. 33B



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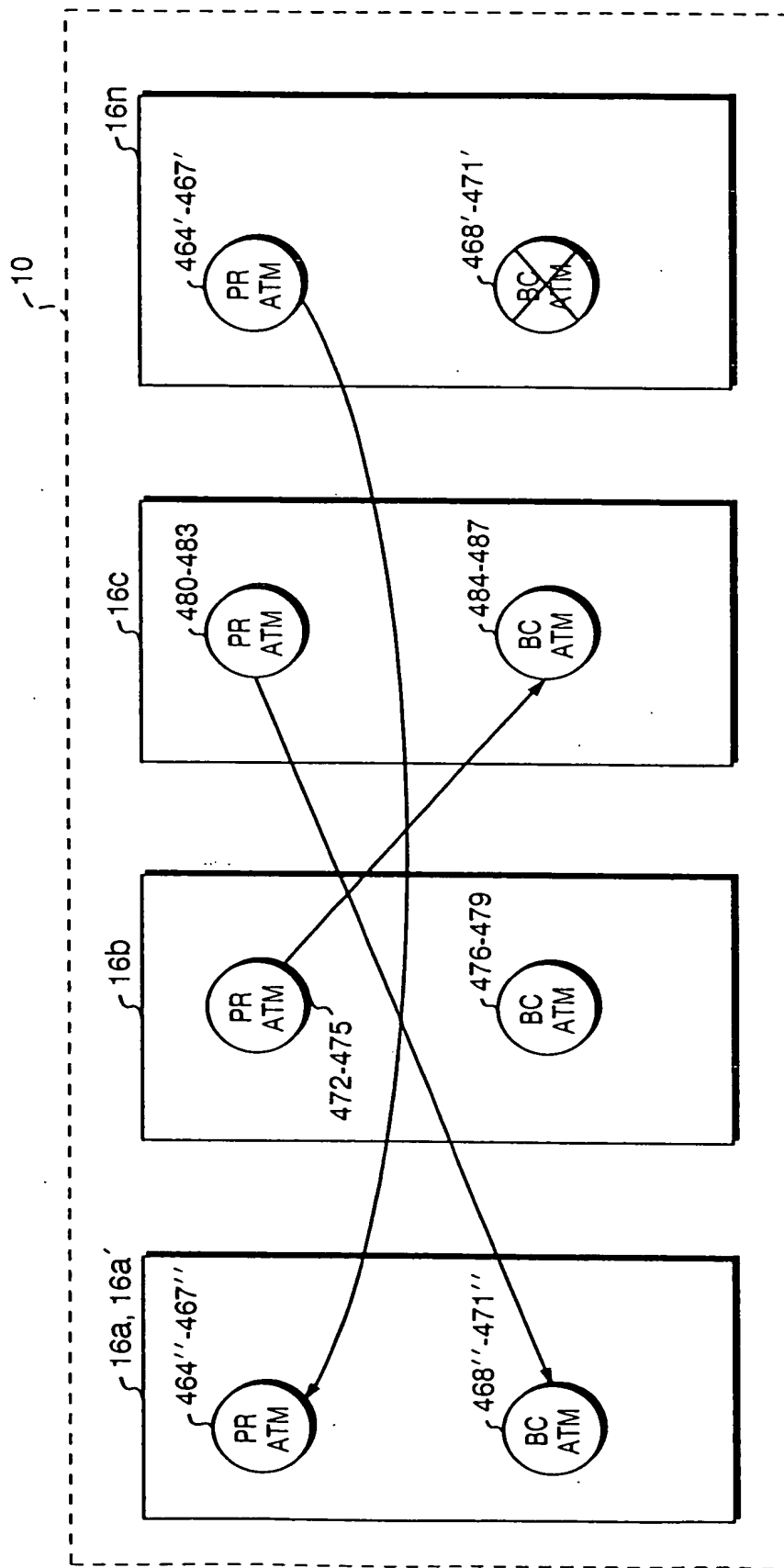


FIG. 33C

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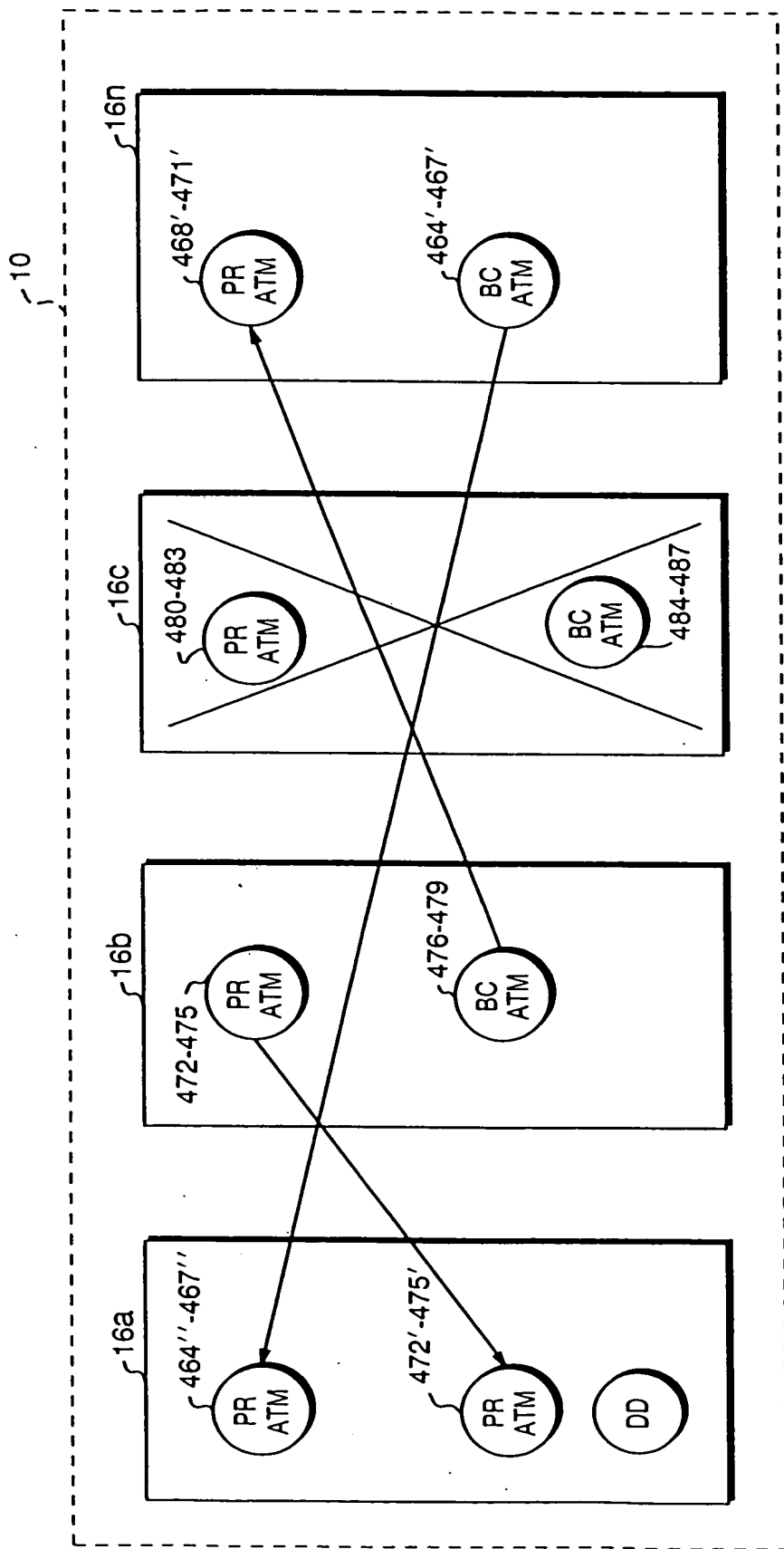


FIG. 33D

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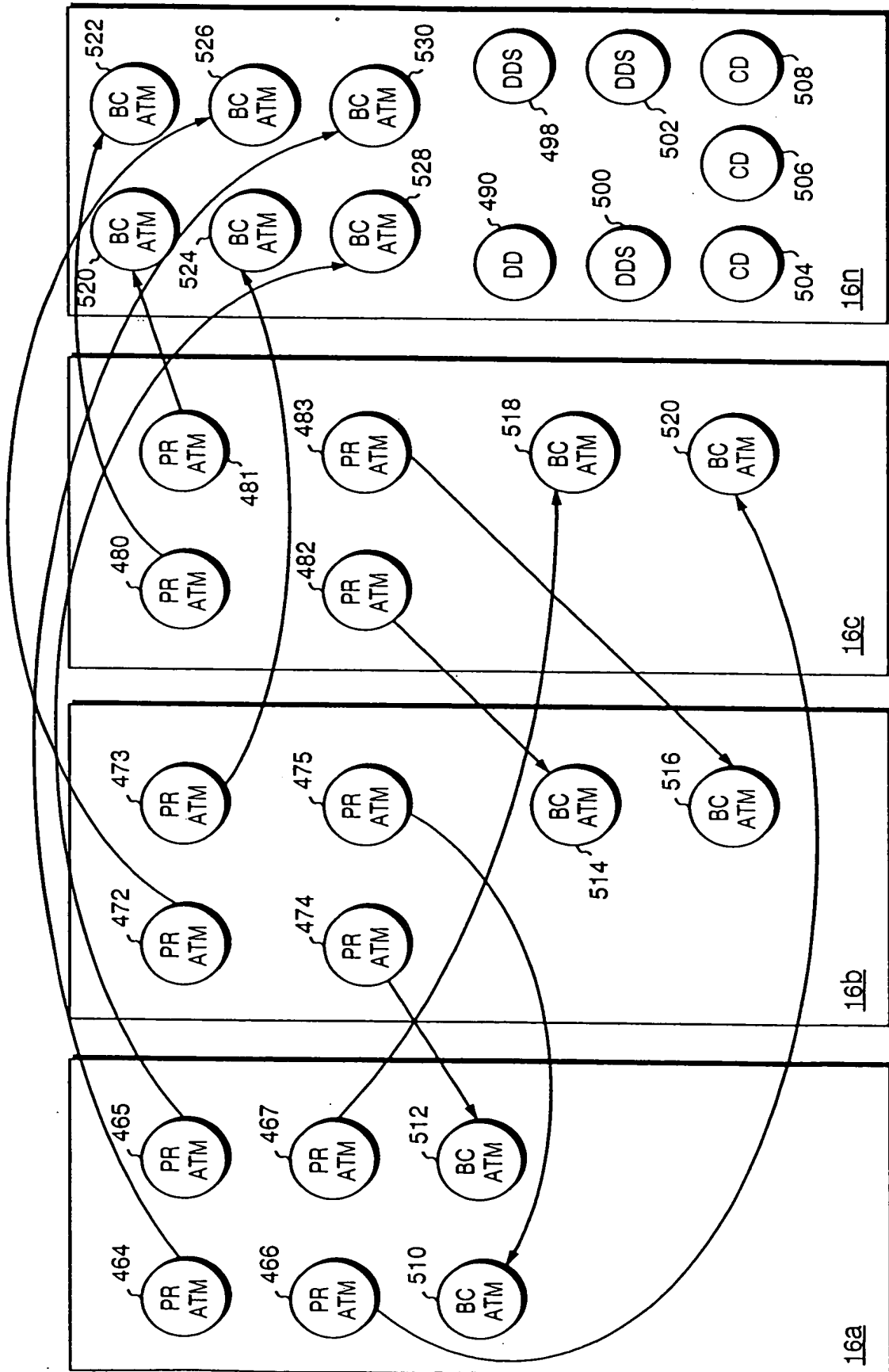


FIG. 34A

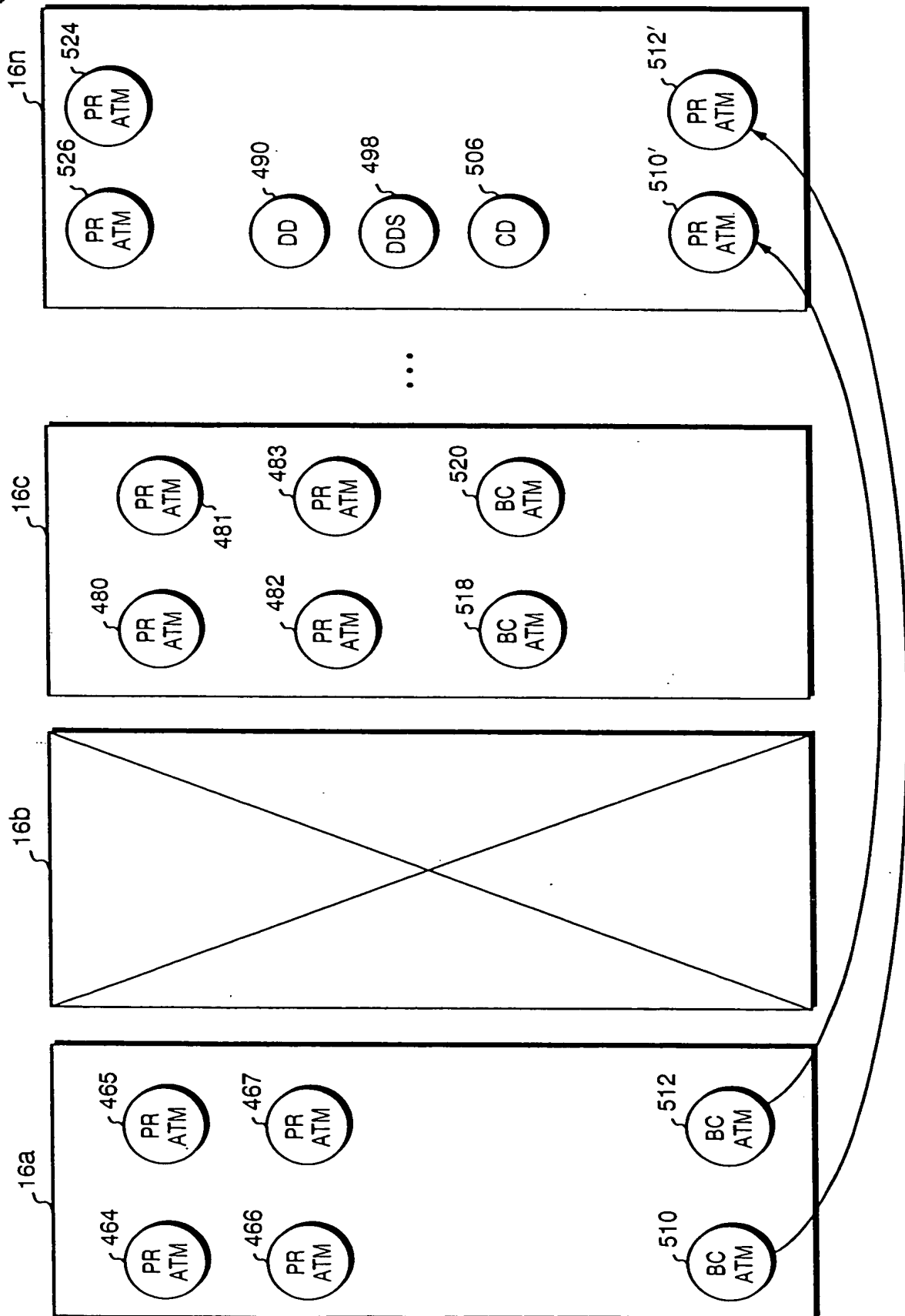


FIG. 34B



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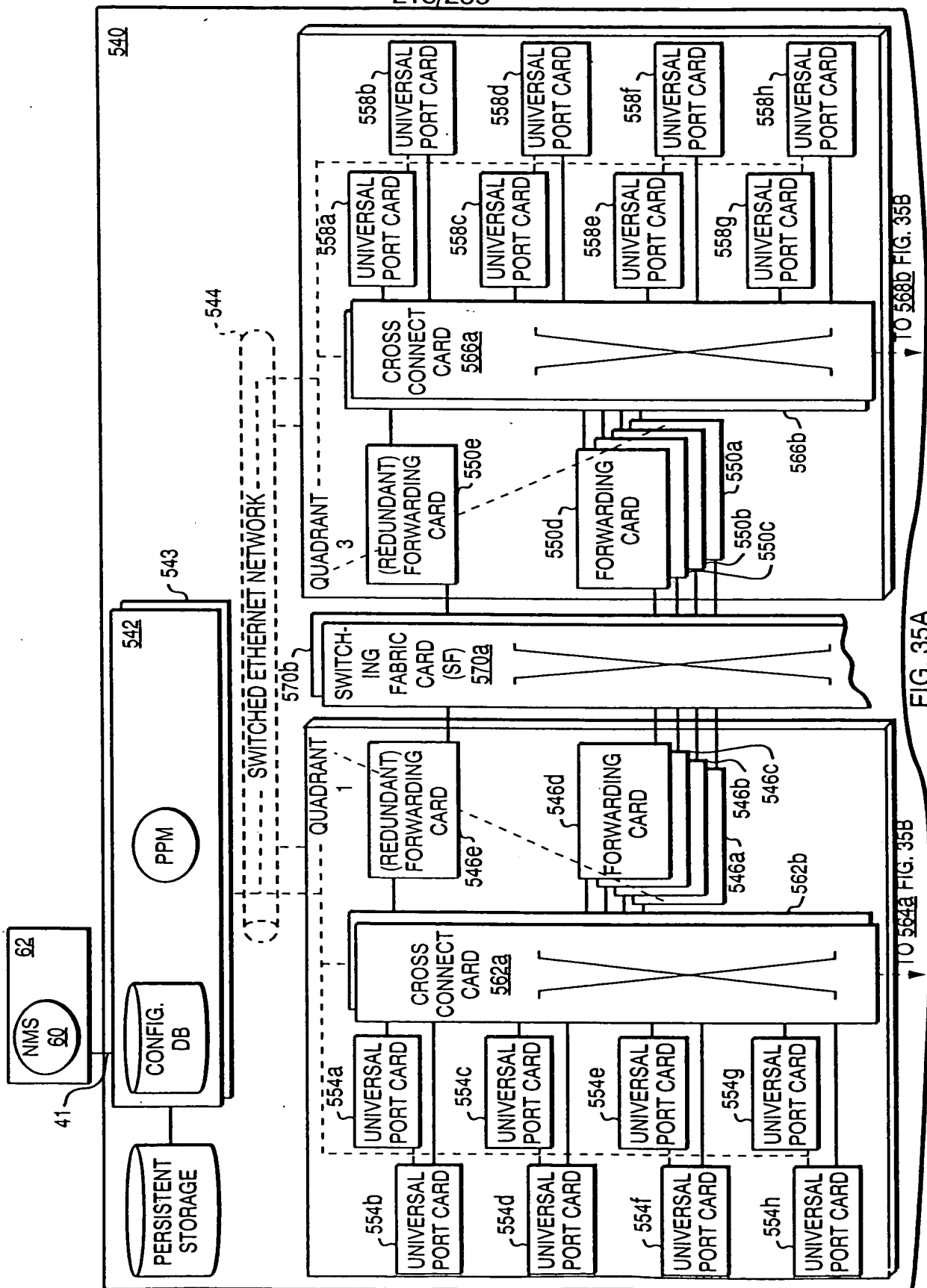


FIG. 35A

TO 568b FIG. 35B

TO 564a FIG. 35B



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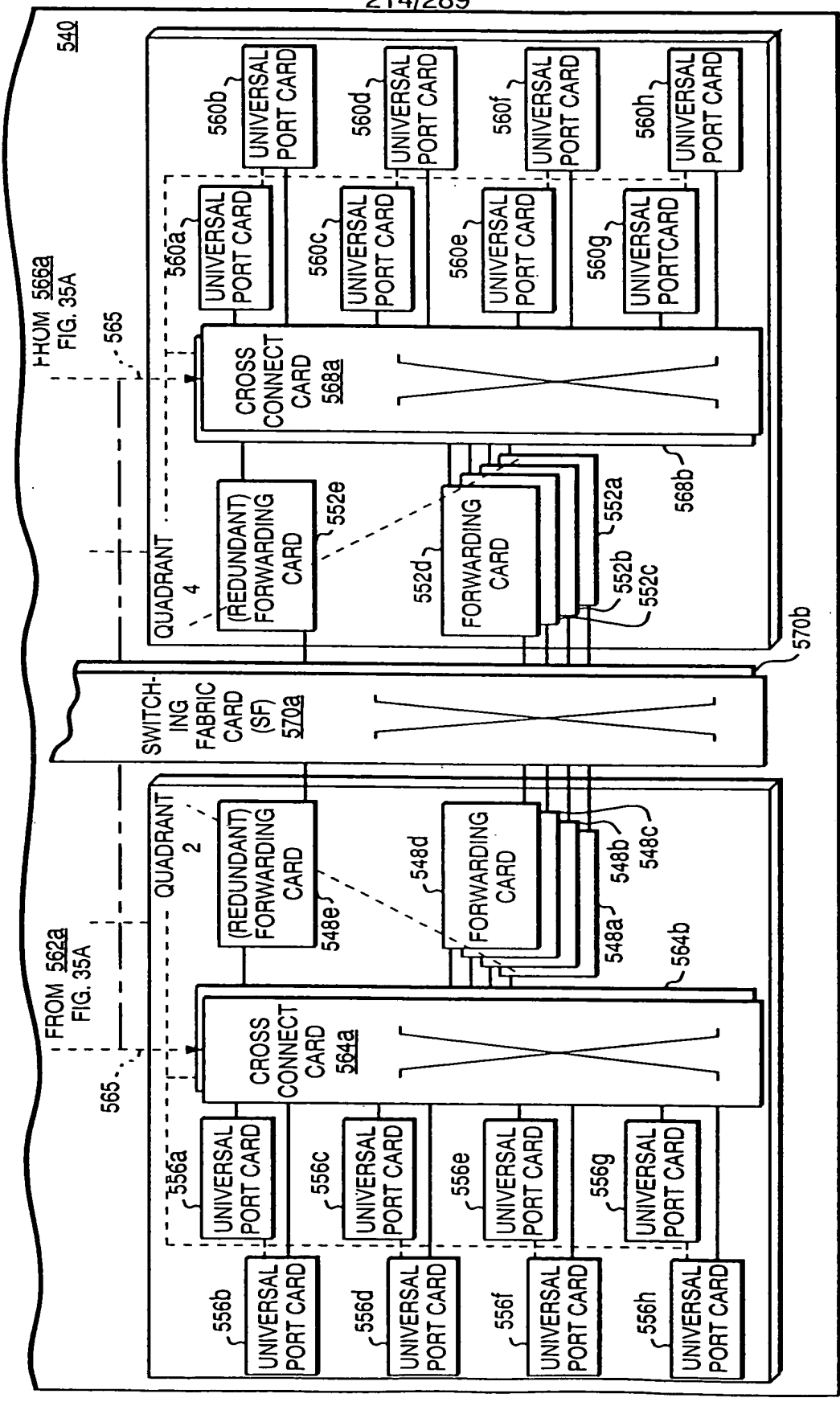


FIG. 35B



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CROSS CONNECTION CARD

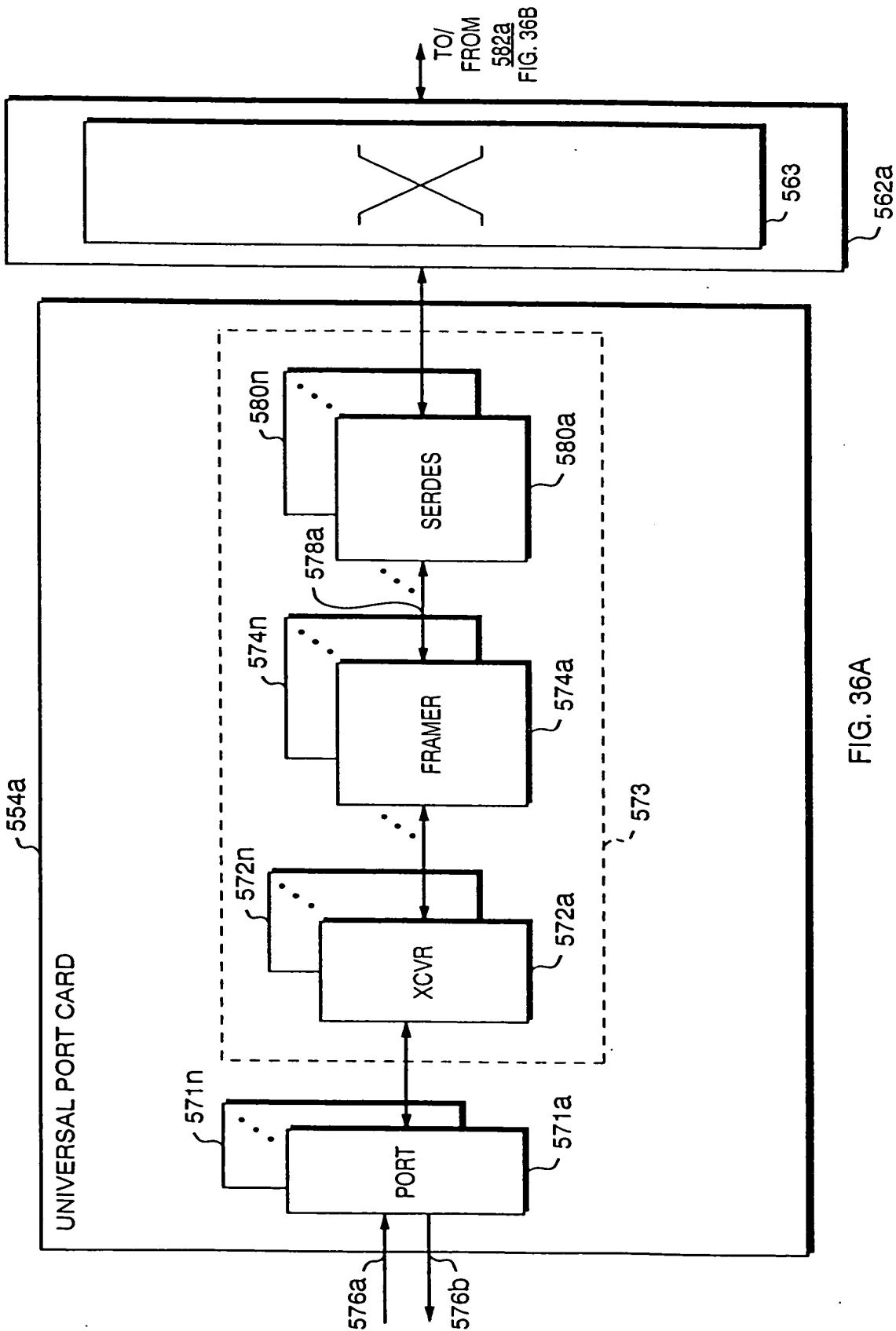


FIG. 36A

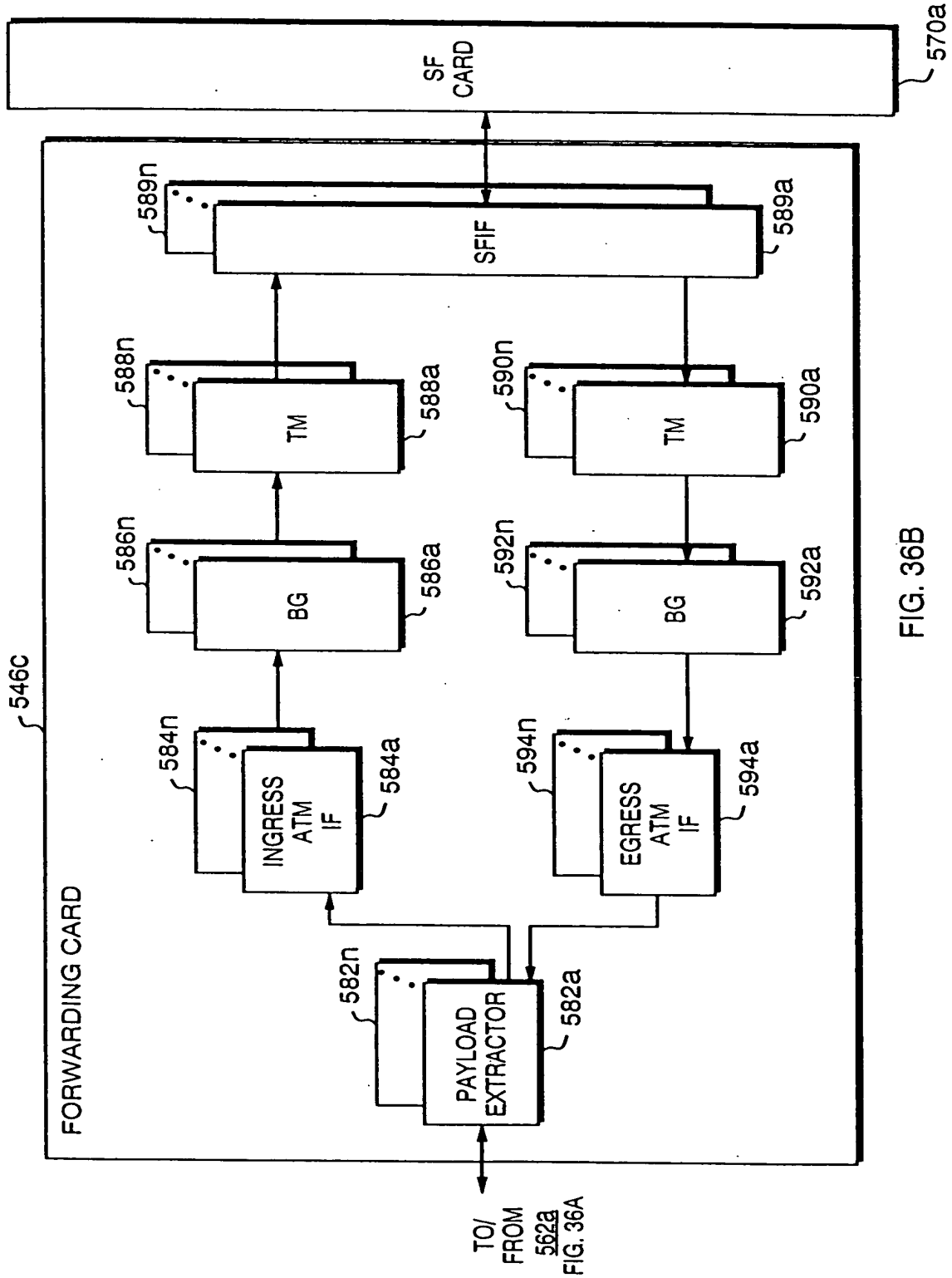


FIG. 36B



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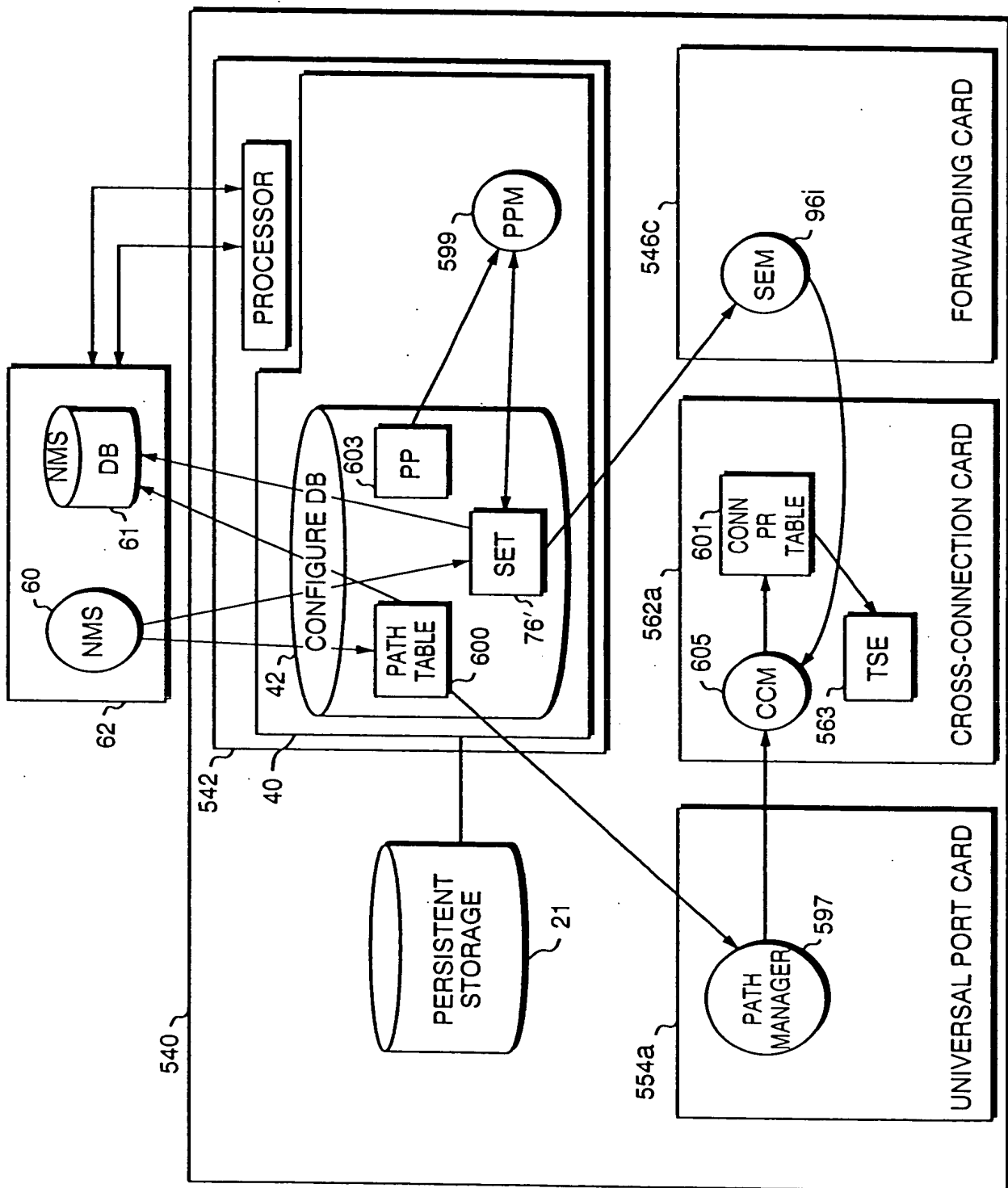


FIG. 37



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PATH TABLE 600

602

PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	...
1666	1231	4	3	
⋮	⋮	⋮	⋮	⋮

FIG. 38



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SERVICE END POINT TABLE 76'

		{ 606		{ 608		{ 610	
	SE #	Q #	FC LID	FC SLICE	FC TIME SLOT	PATH PID	...
604 {	878	1				1666	

	:	:	:	:	:	:	:

FIG. 39



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540

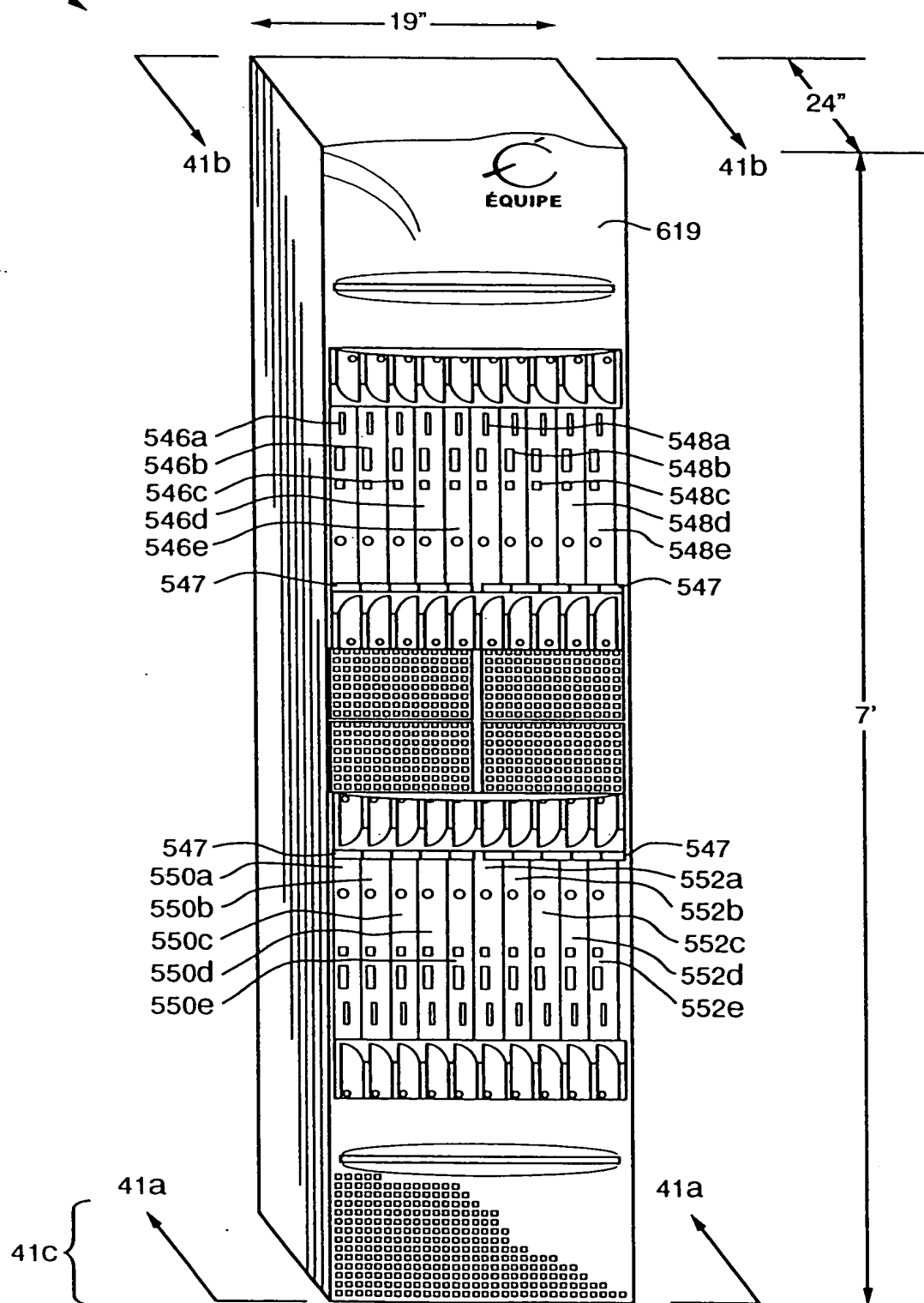


FIG. 40



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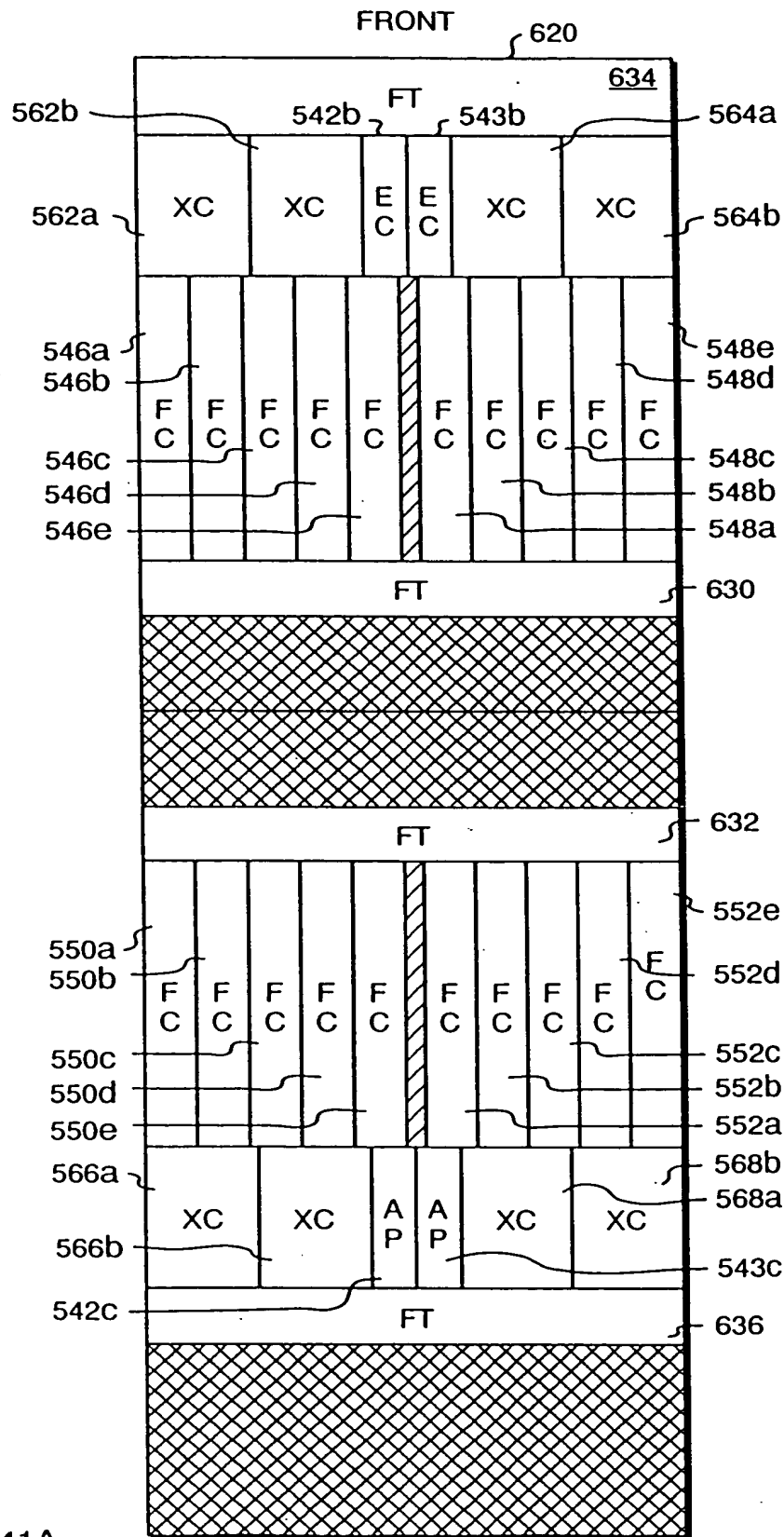


FIG. 41A

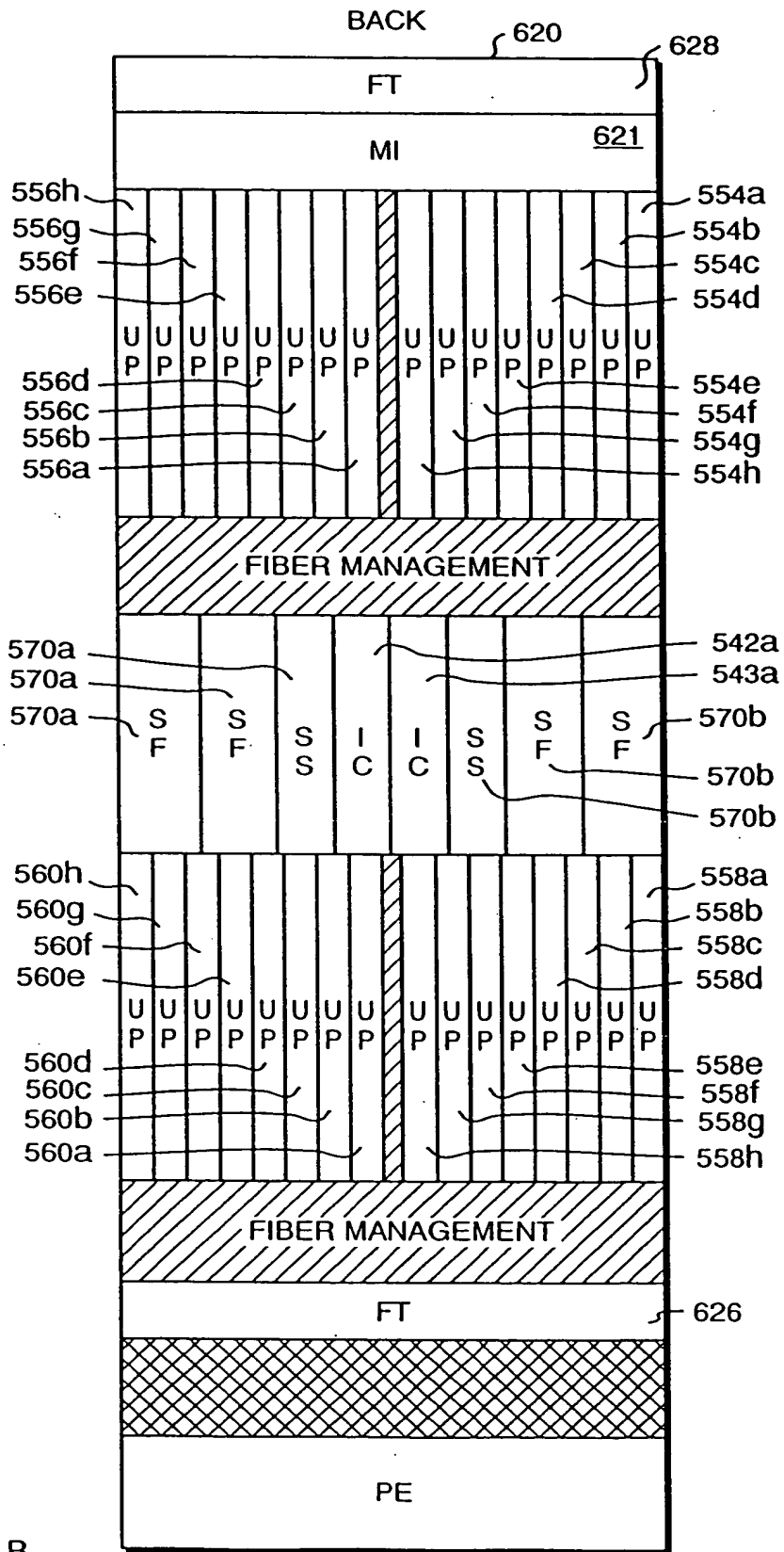


FIG. 41B



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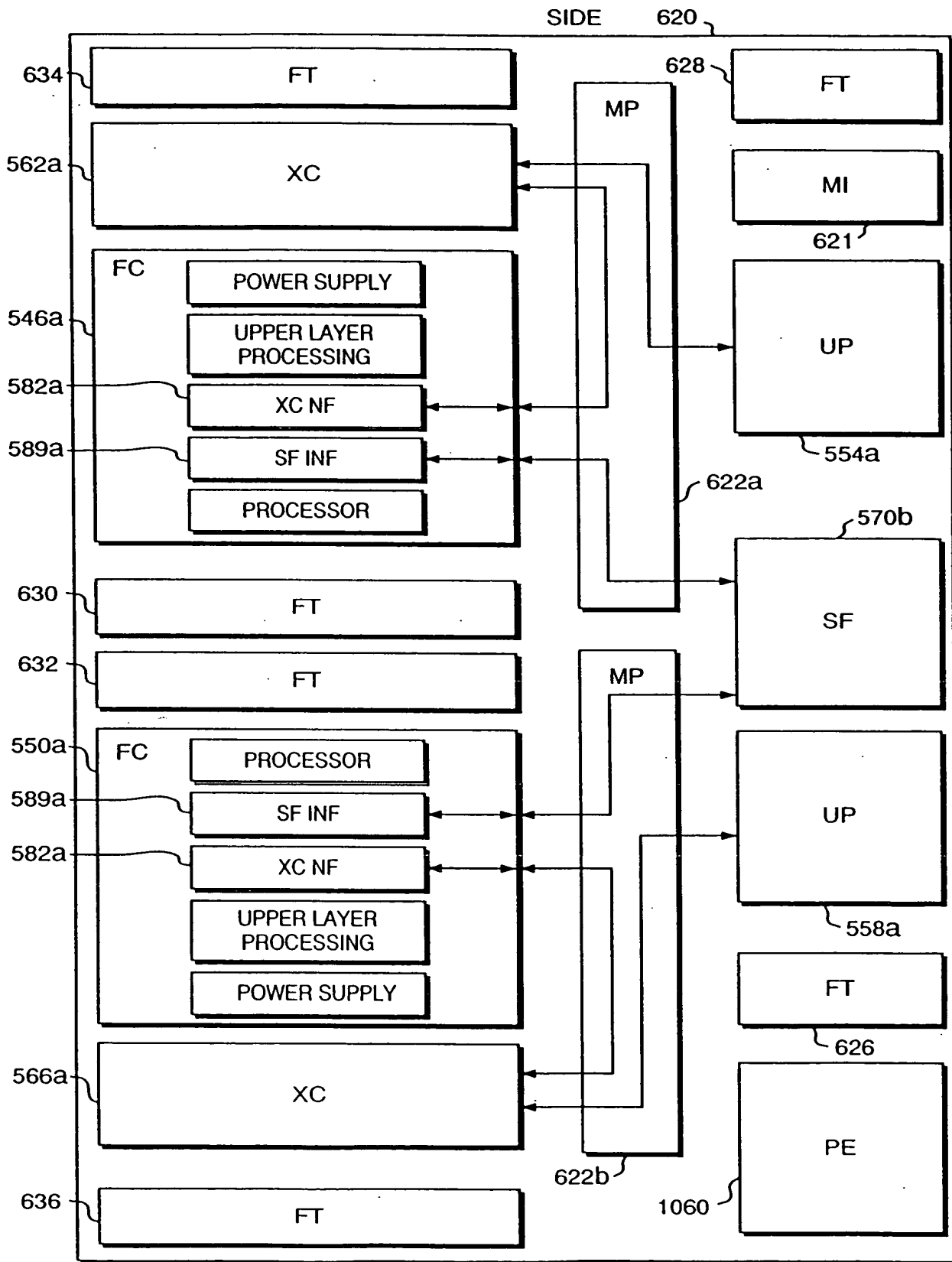


FIG. 41C

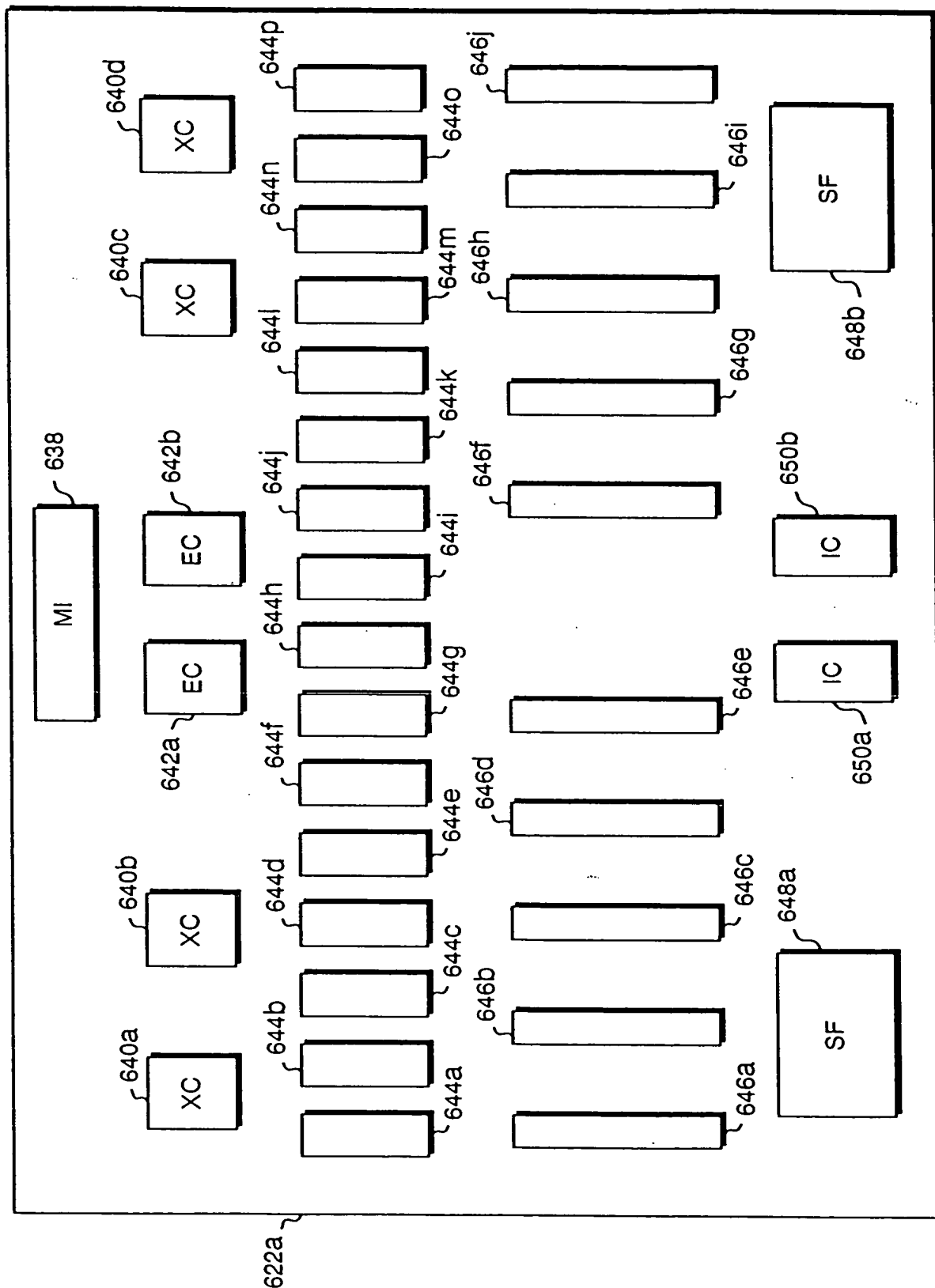


FIG. 42A

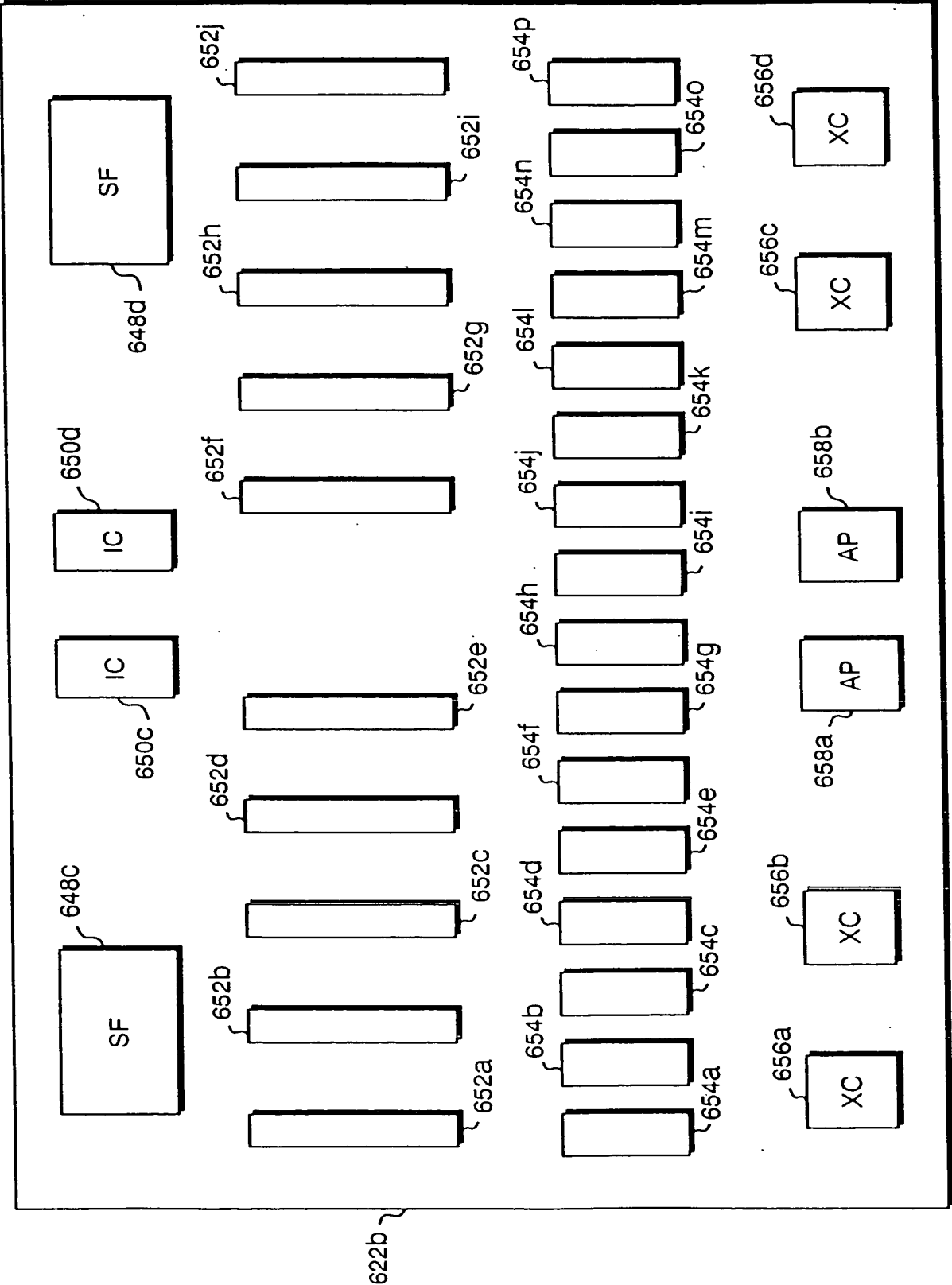


FIG. 42B

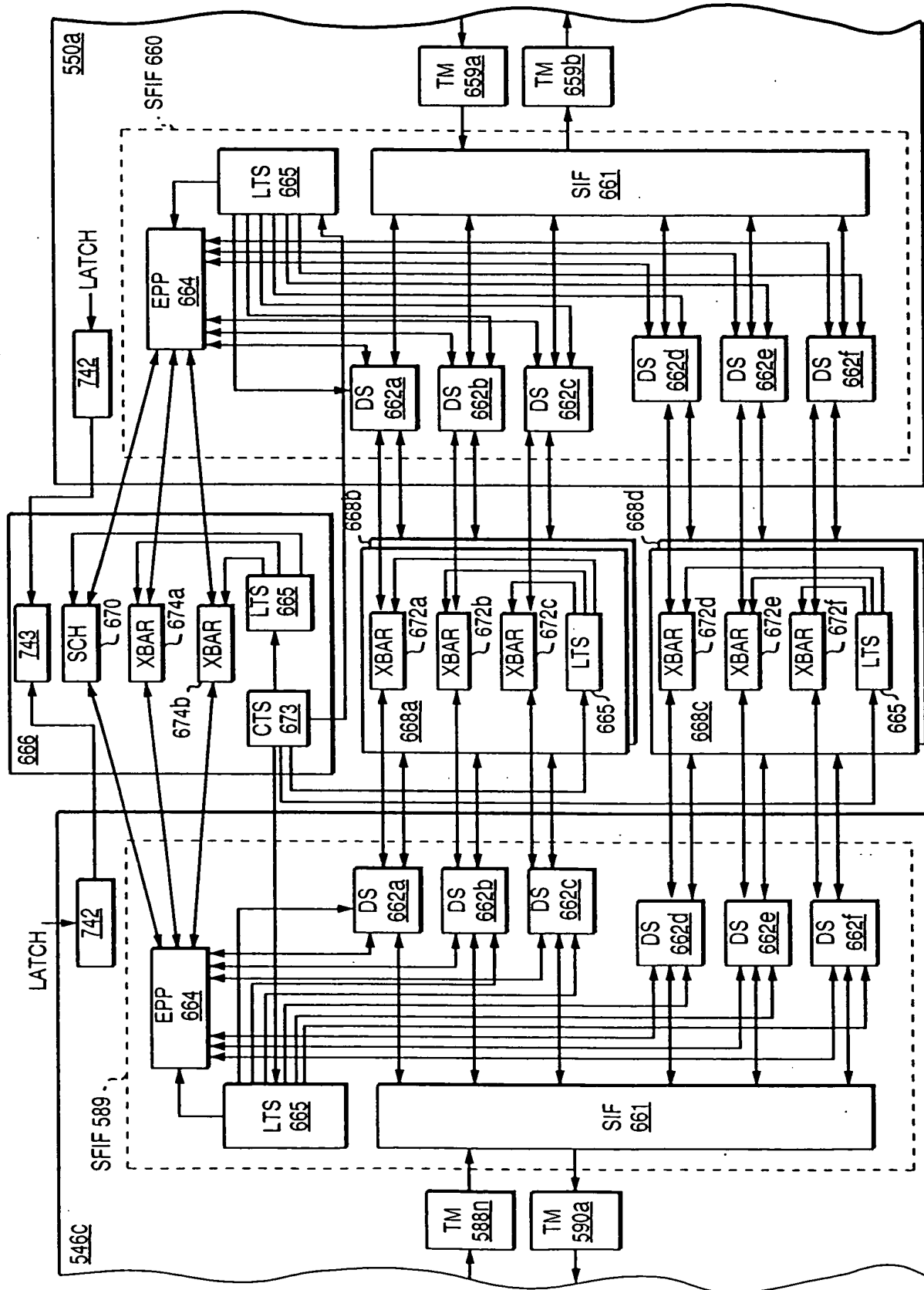


FIG. 43



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640

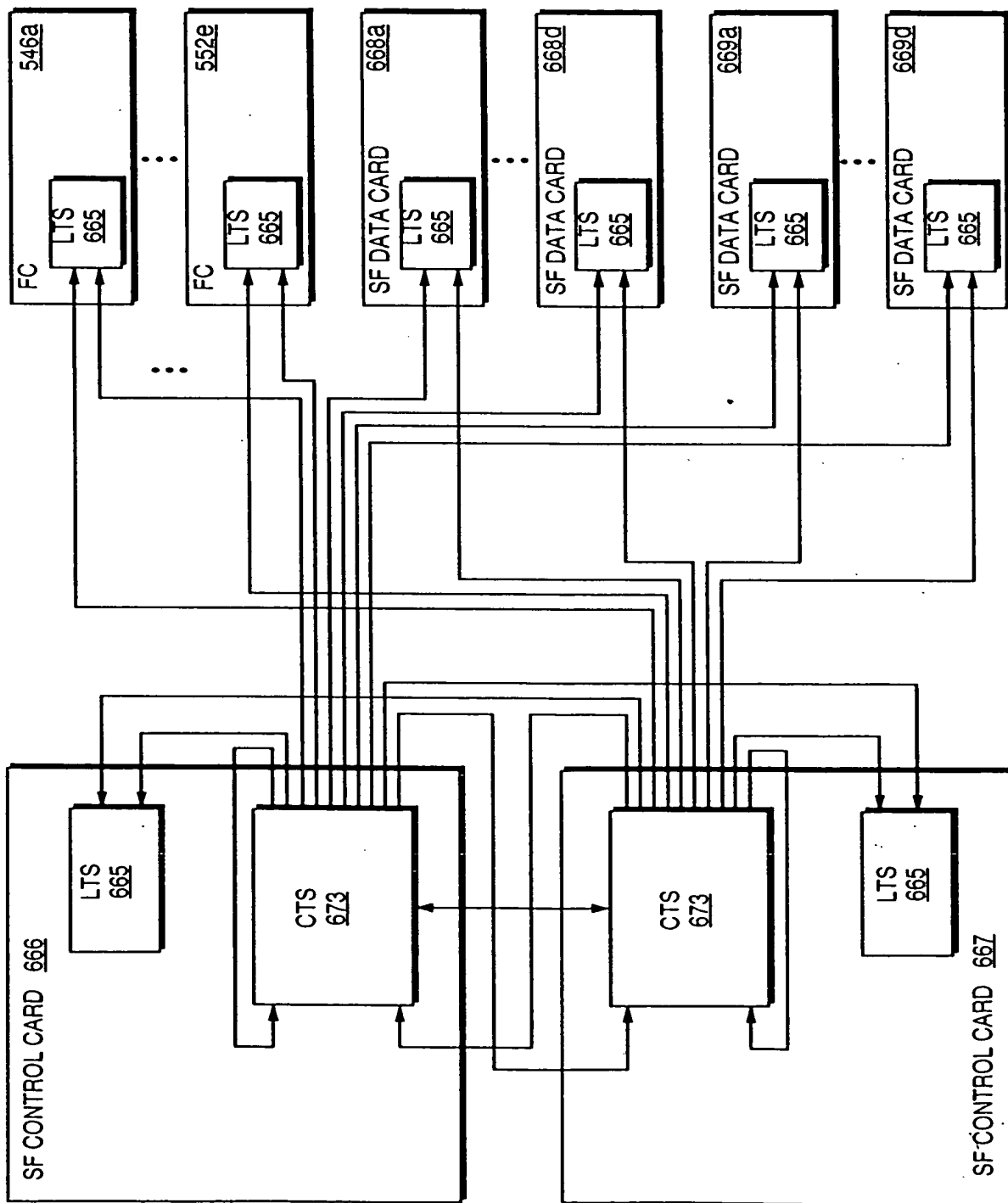


FIG. 44

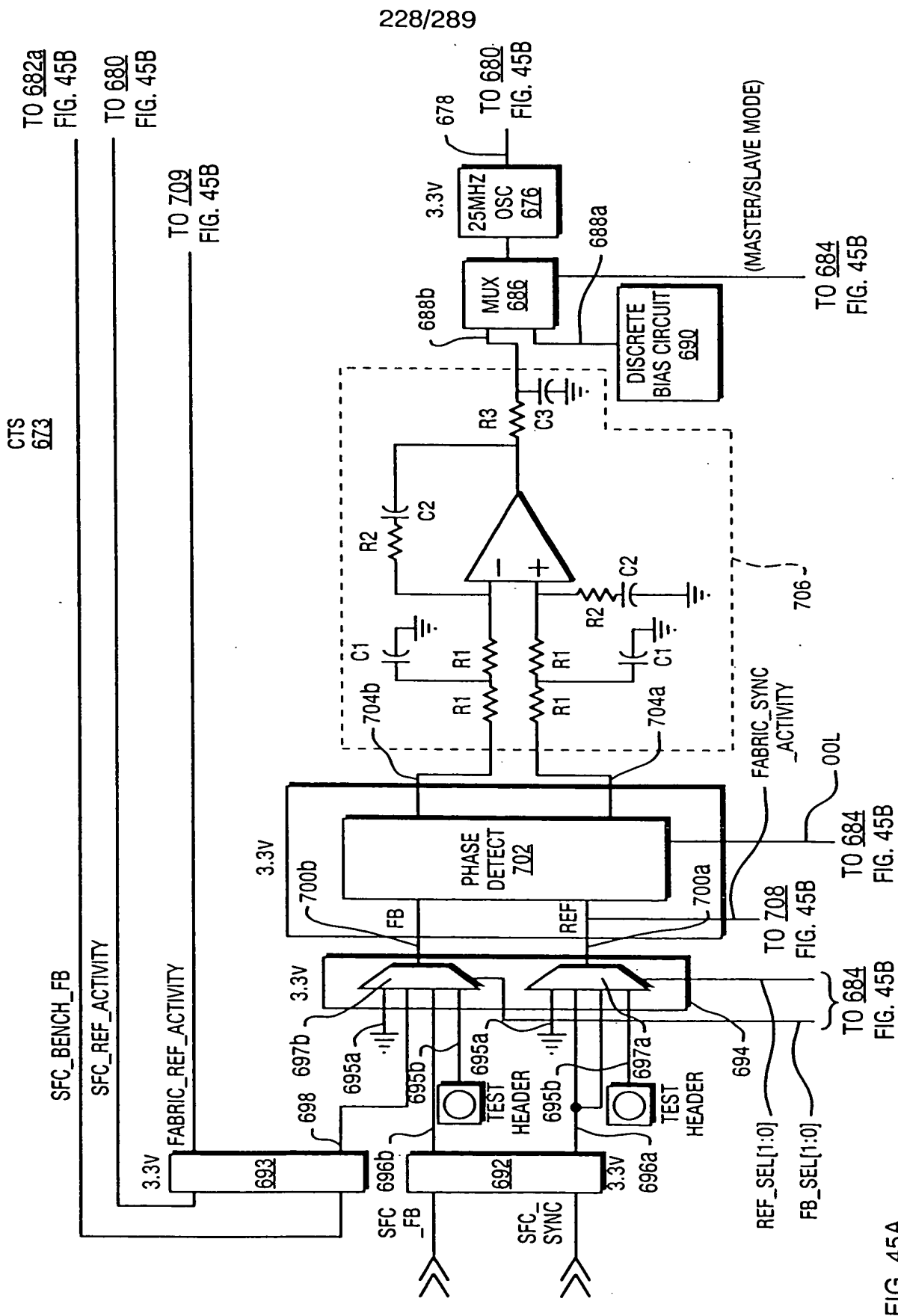
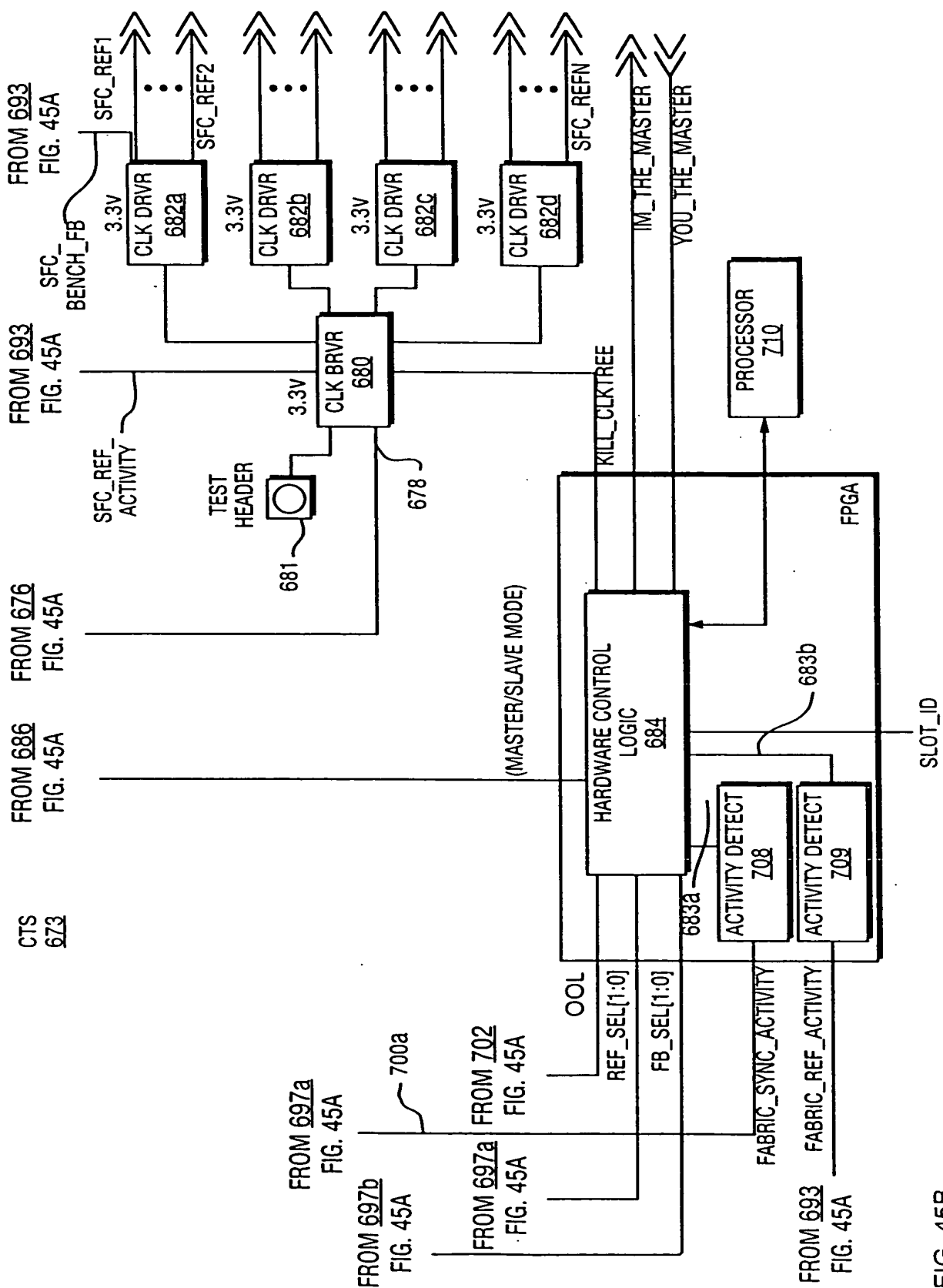


FIG. 45A



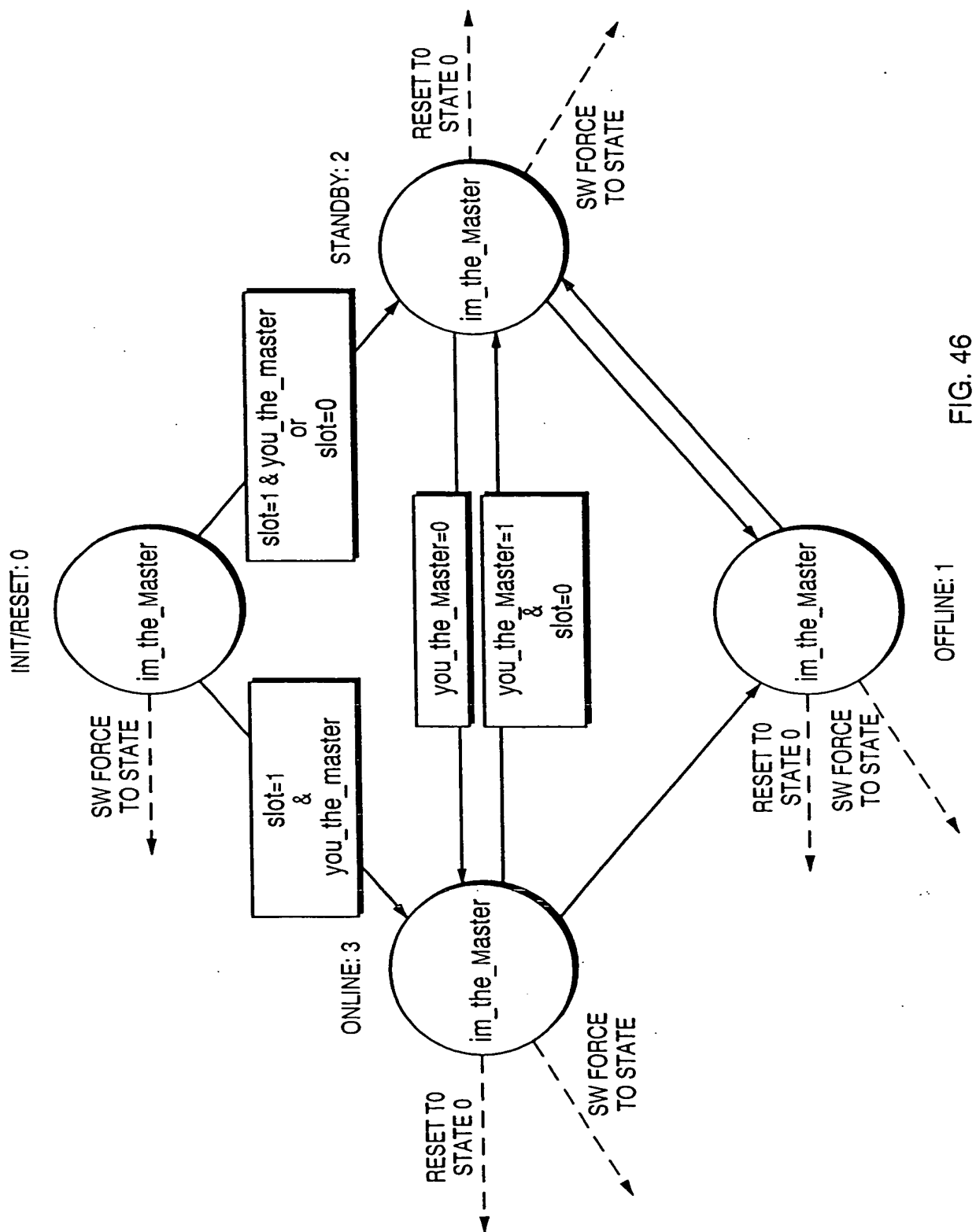


FIG. 46



LTS
665

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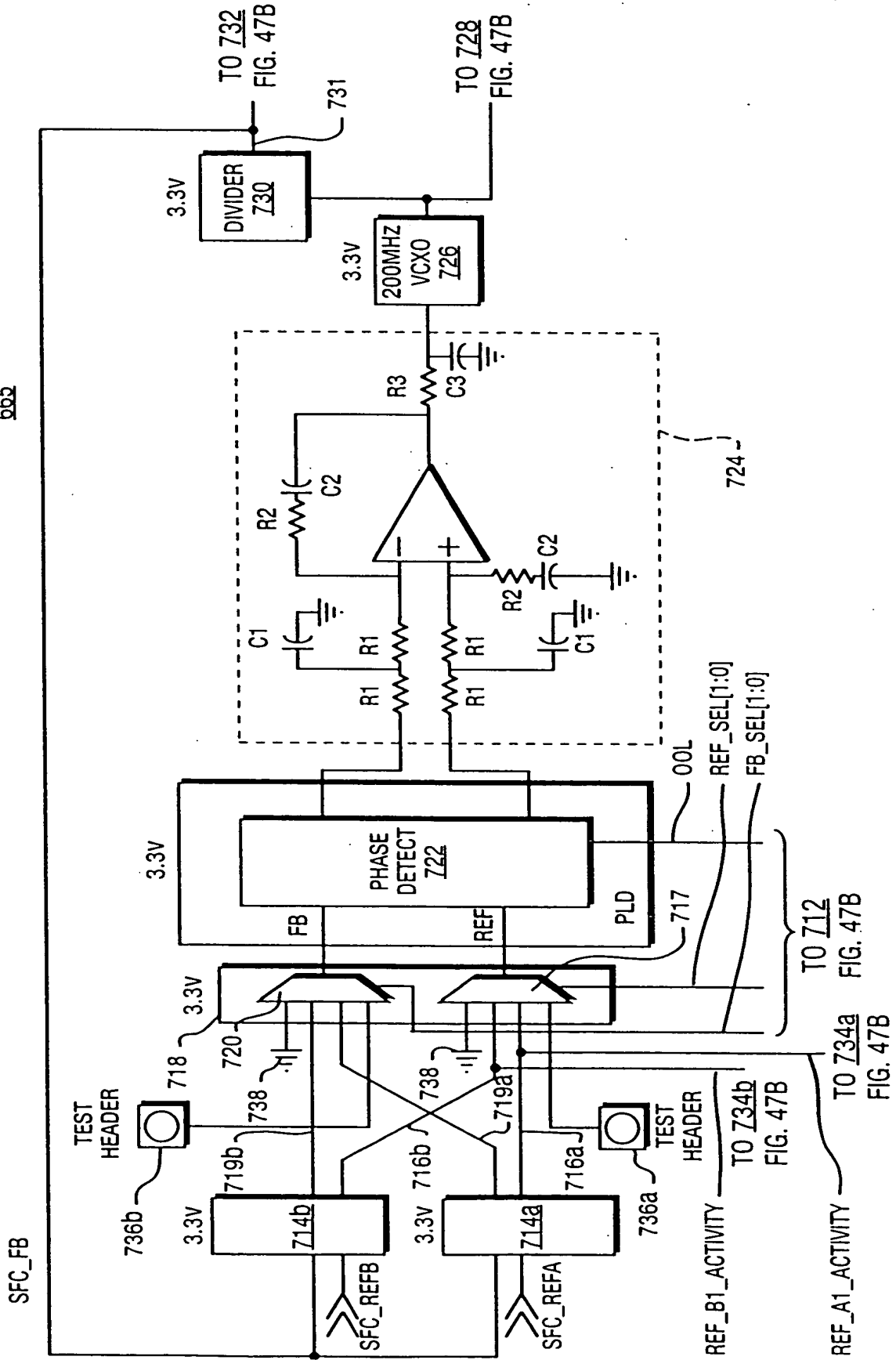
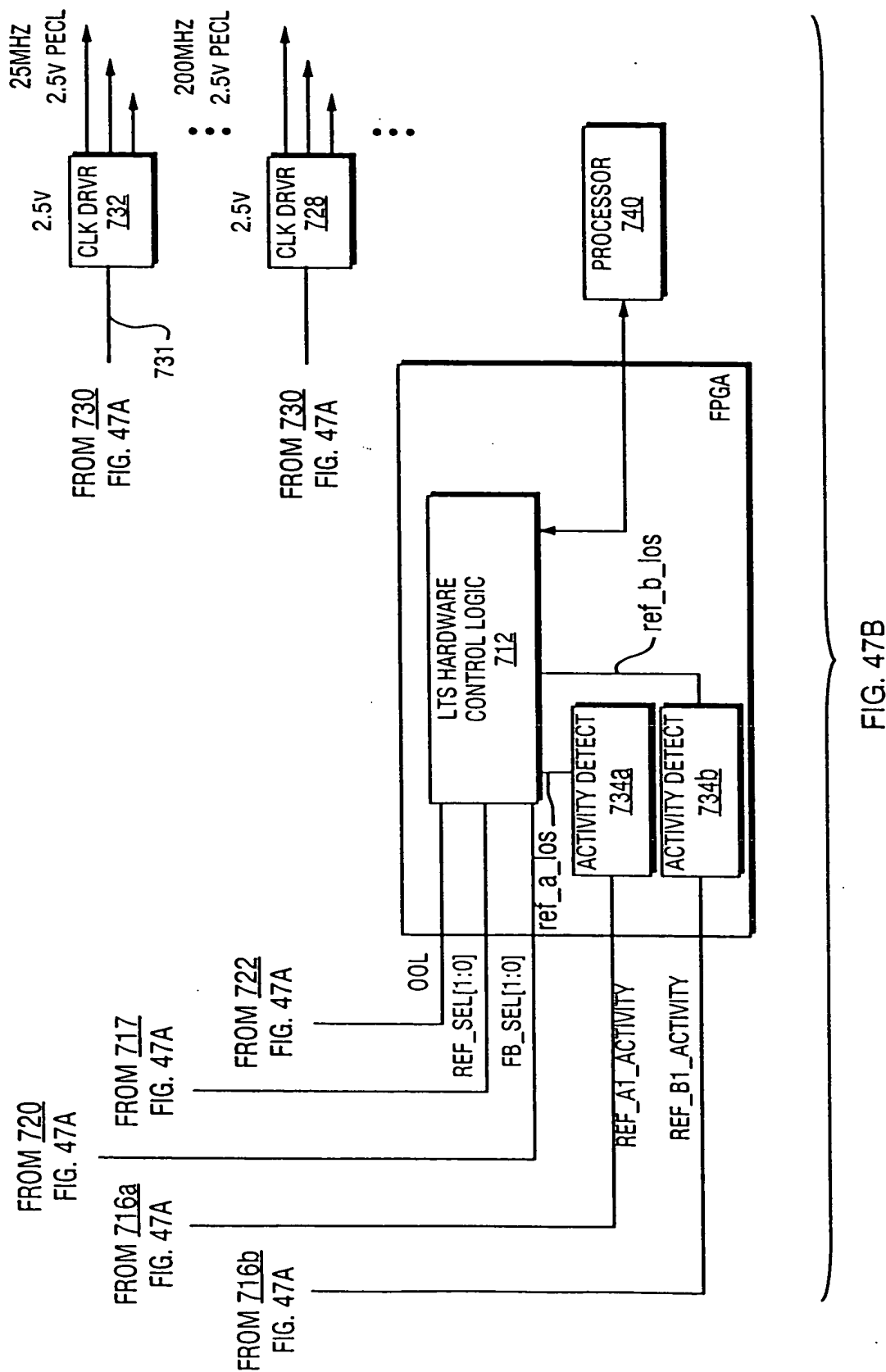


FIG. 47A



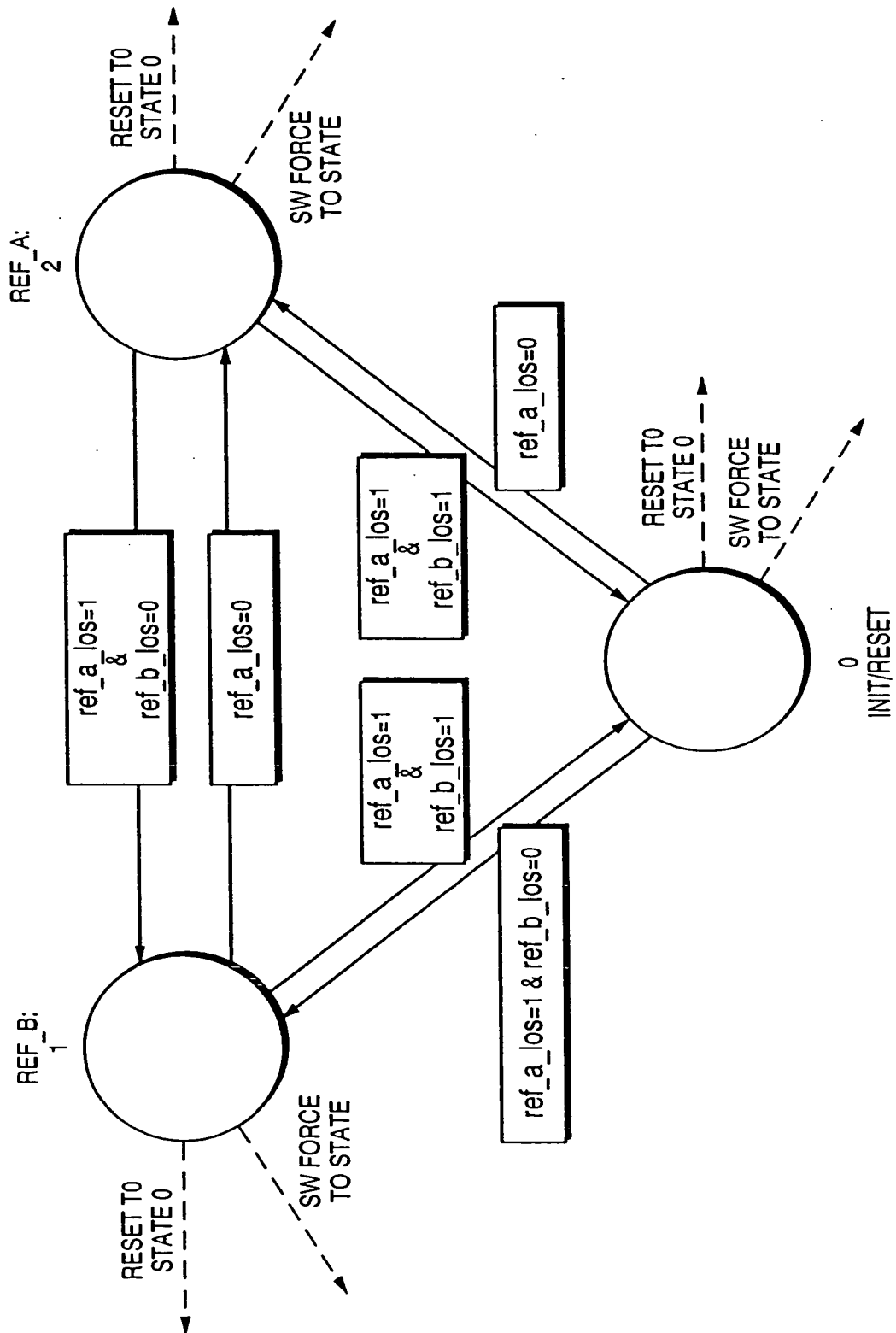


FIG. 48



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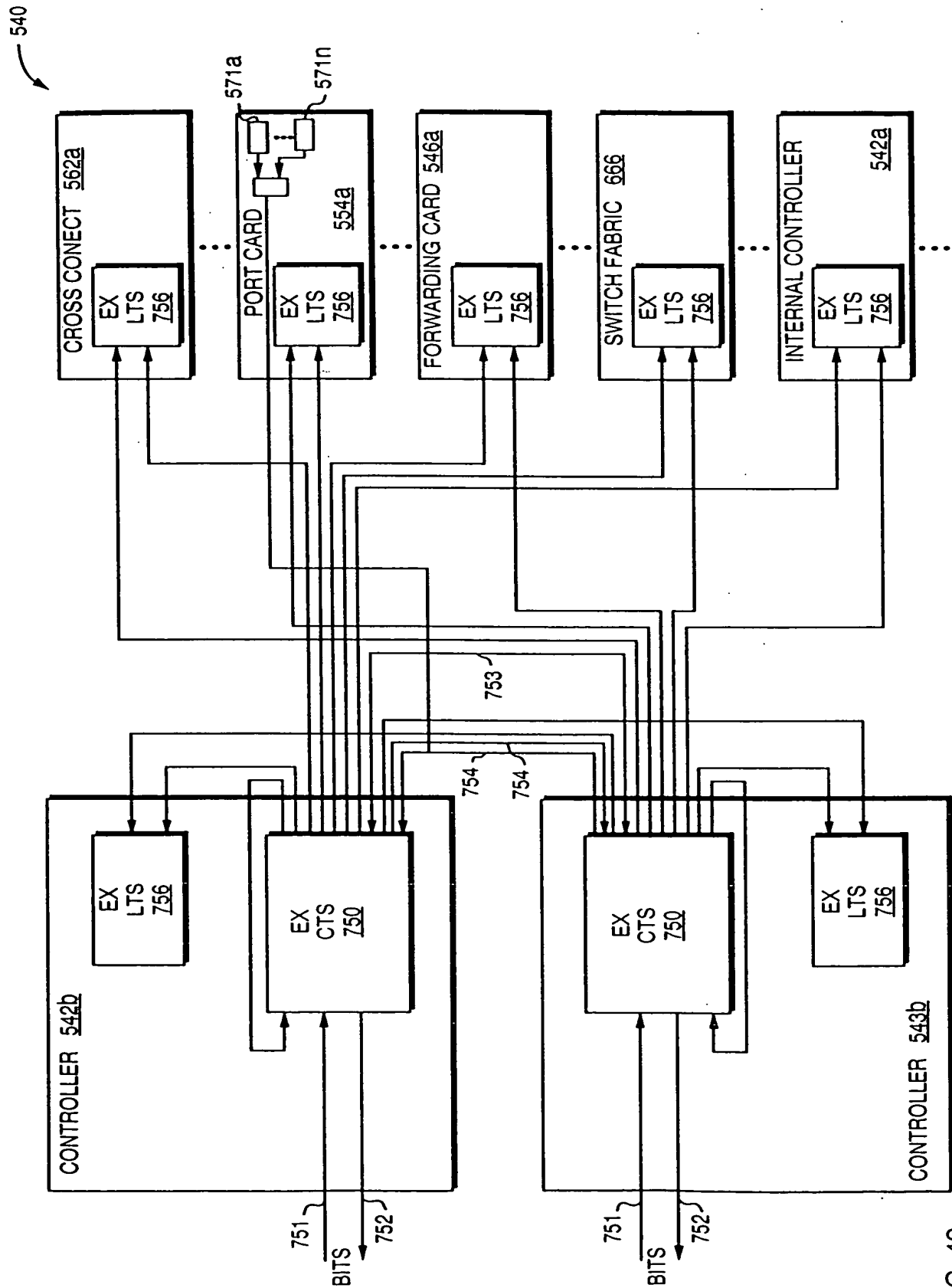


FIG. 49



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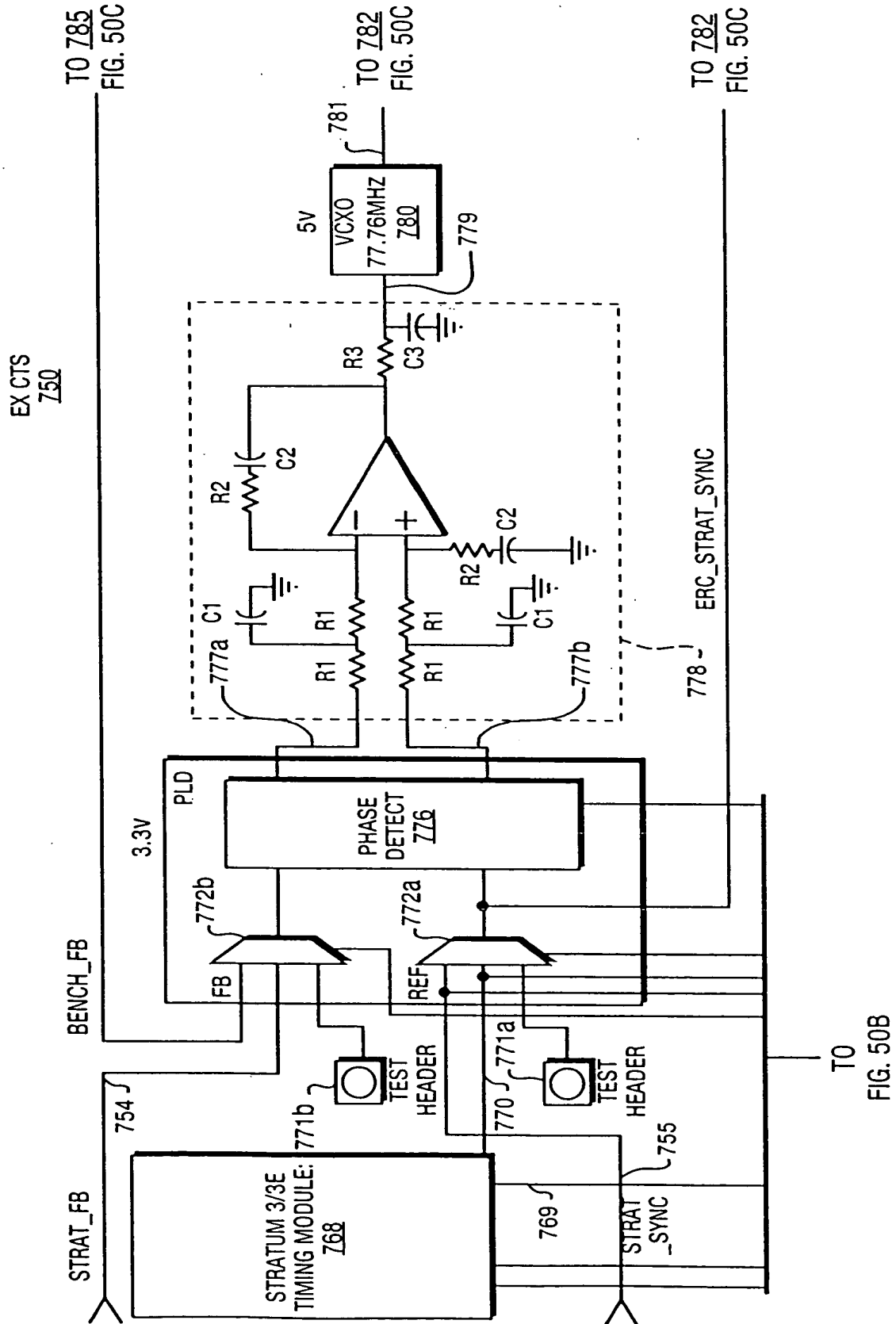


FIG. 50A

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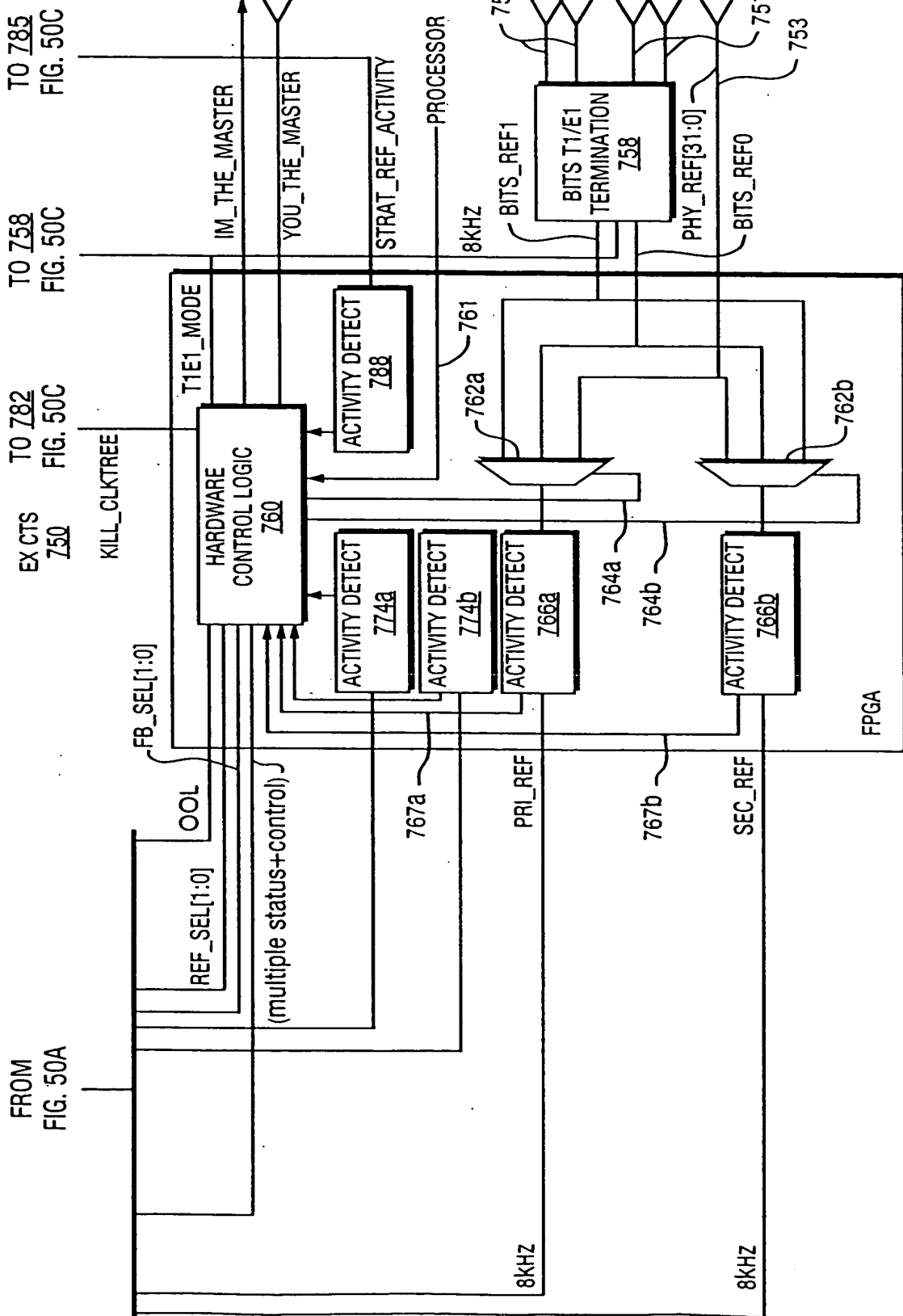
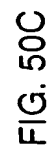


FIG. 50B



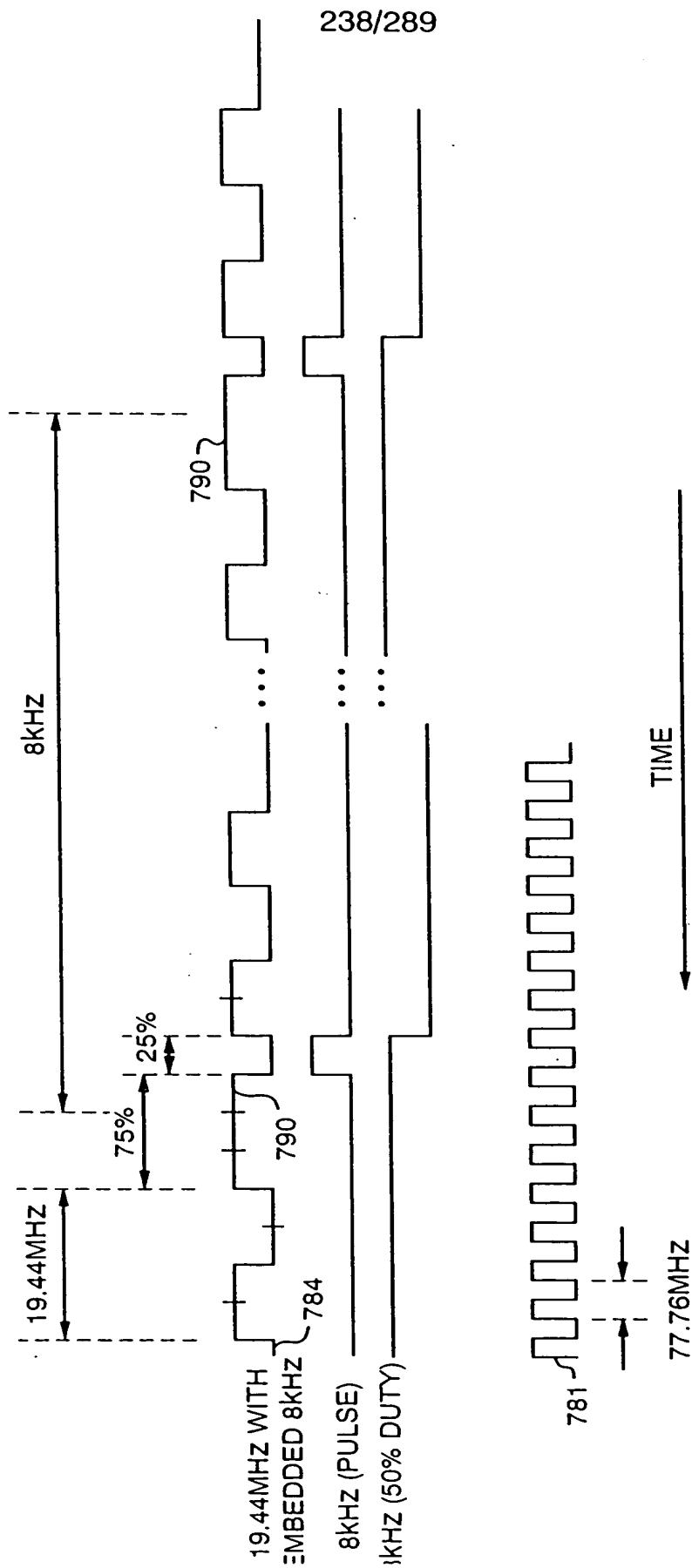


FIG. 51

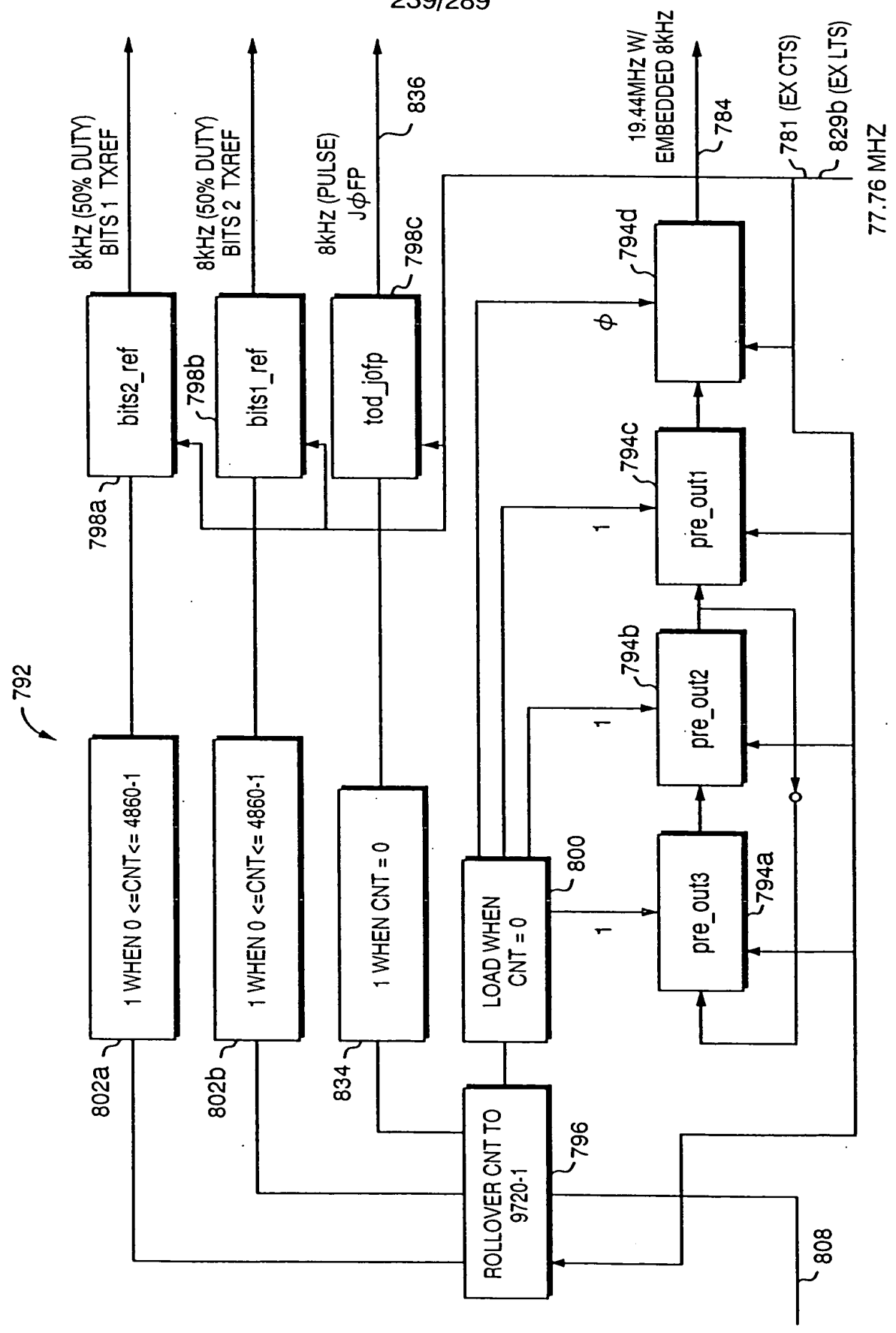


FIG. 52



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EXTRACTOR
804

ERC STRAT_SYNC (EX CTS)
STRAT_REF_A OR STRAT_REF_B (EX LTS) 832
19.44MHz WITH ENCLOSED 8kHz
(MUST BE PULLED LOW WHEN NOT PRESENT)

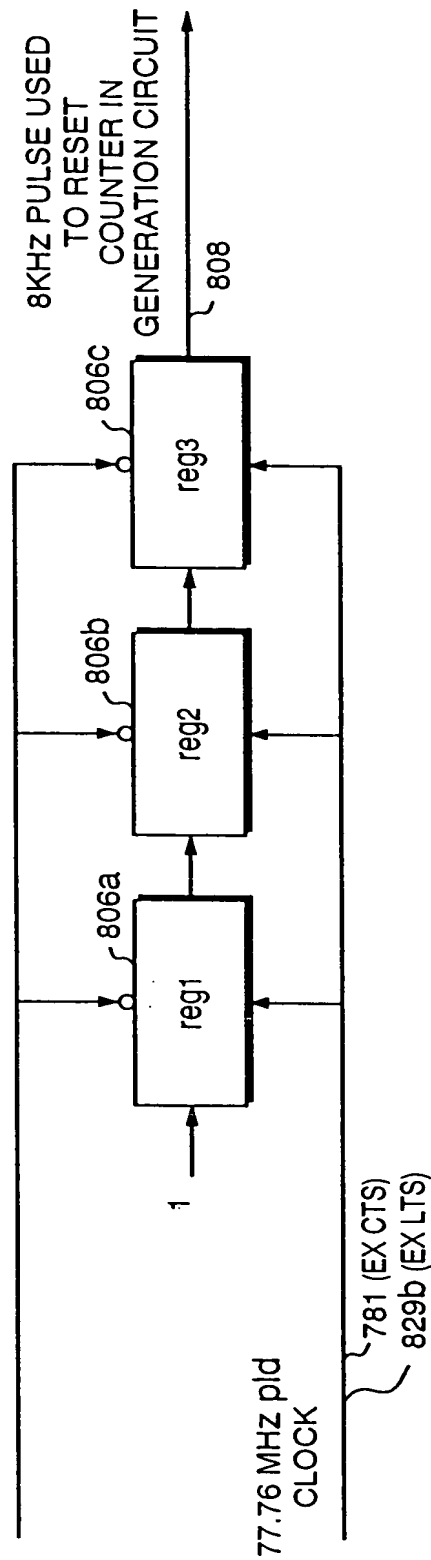
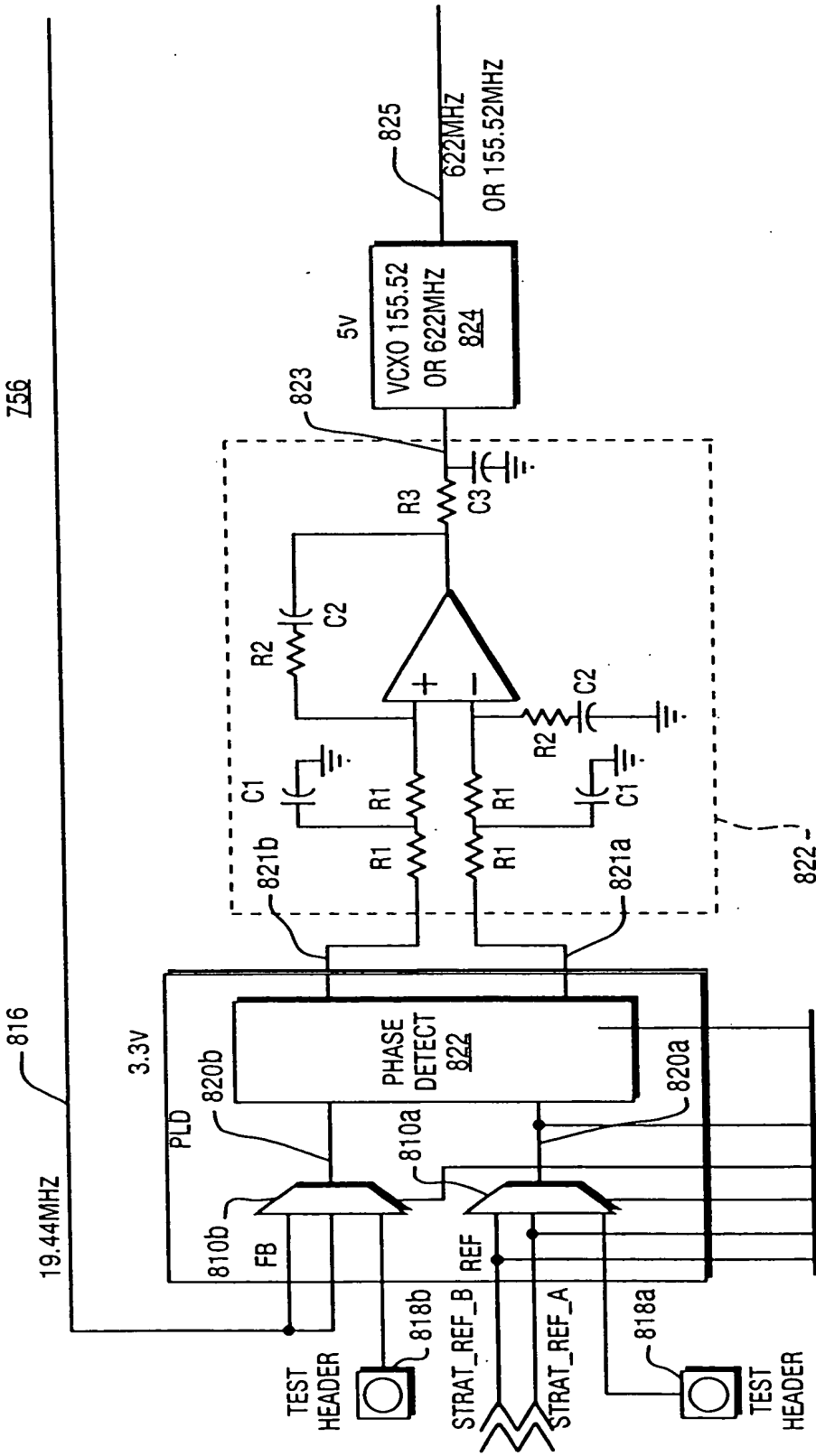


FIG. 53

TO 782
FIG. 54B

EX LTS
756



TO
FIG. 54B

FIG. 54A

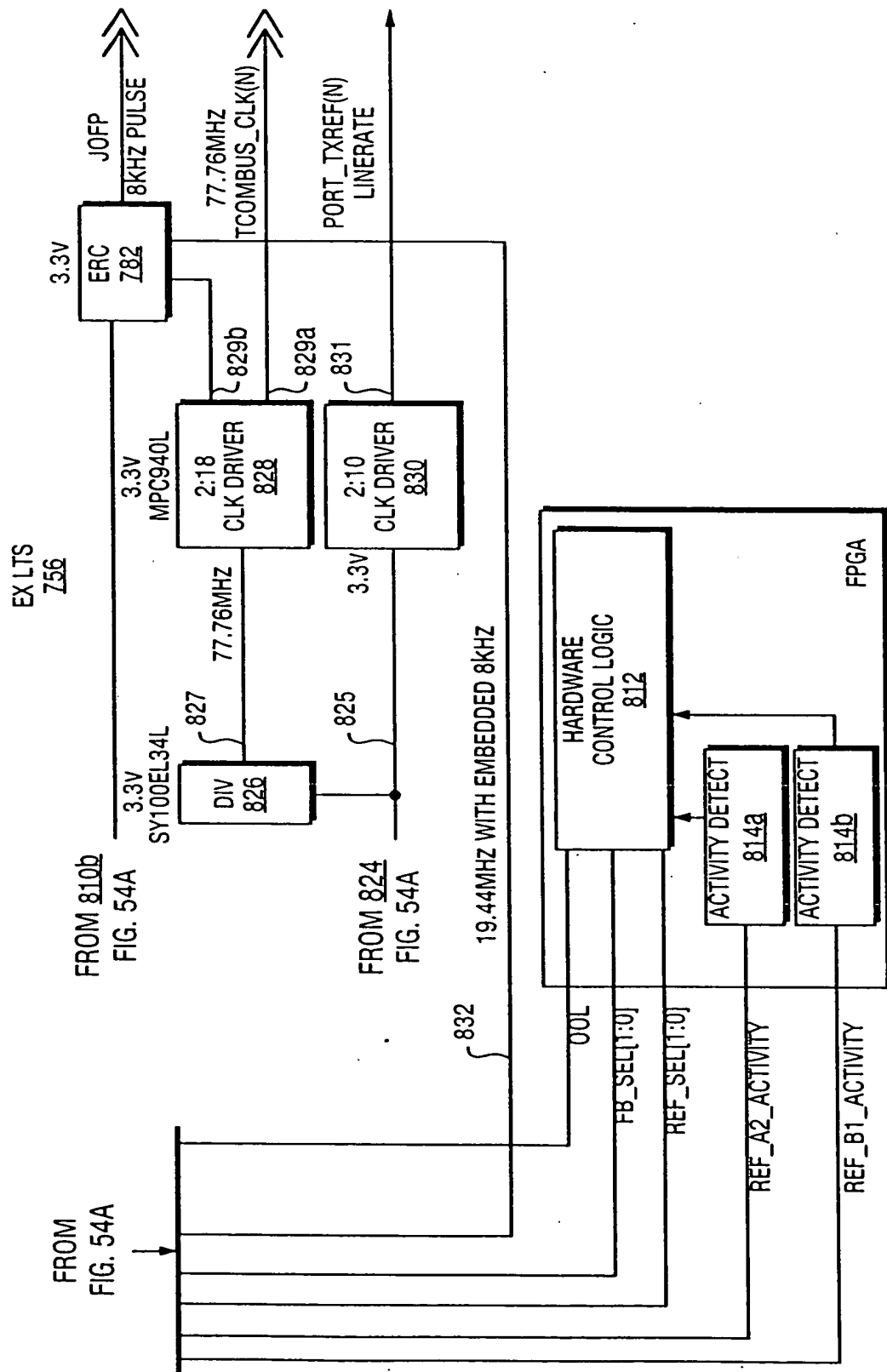
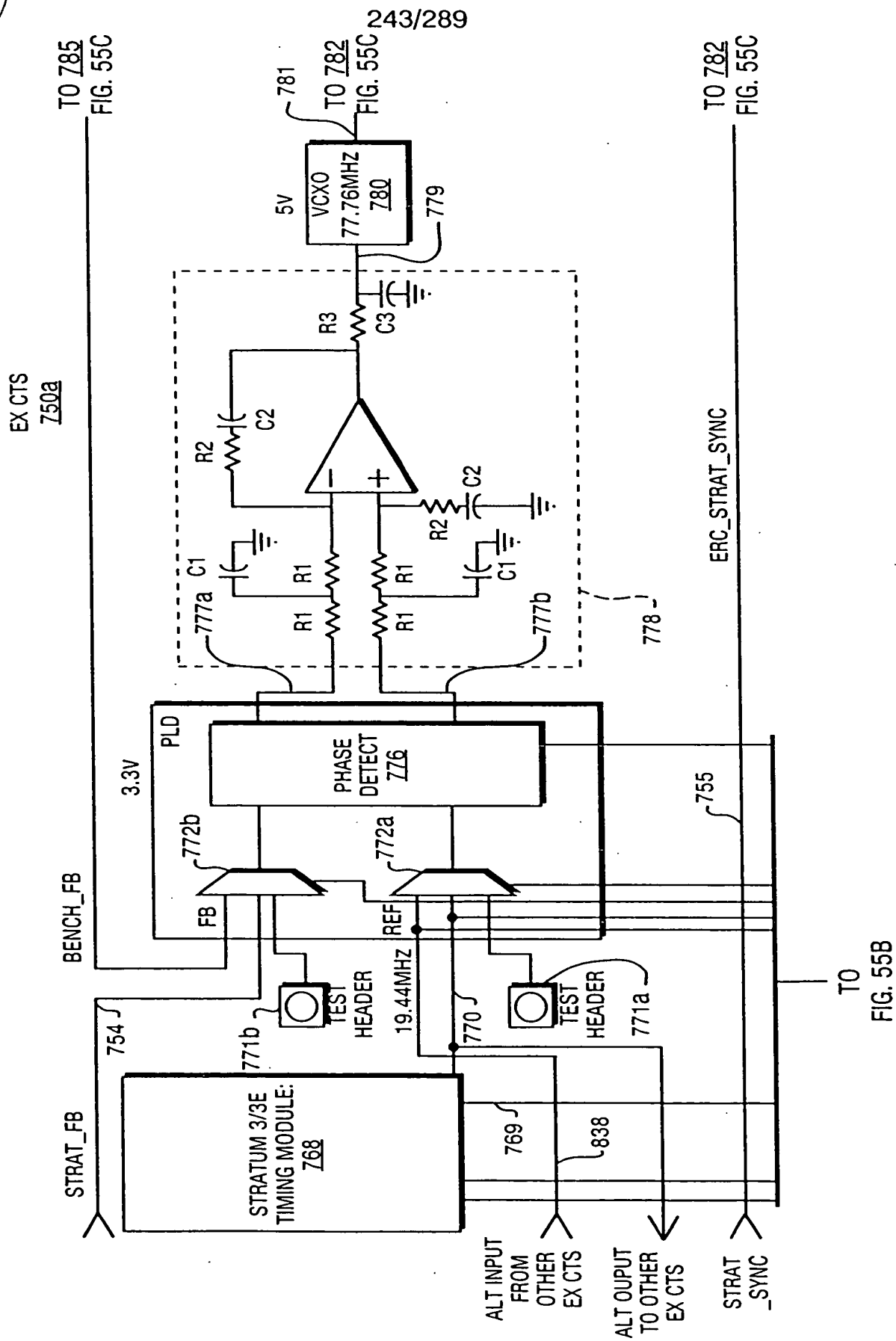
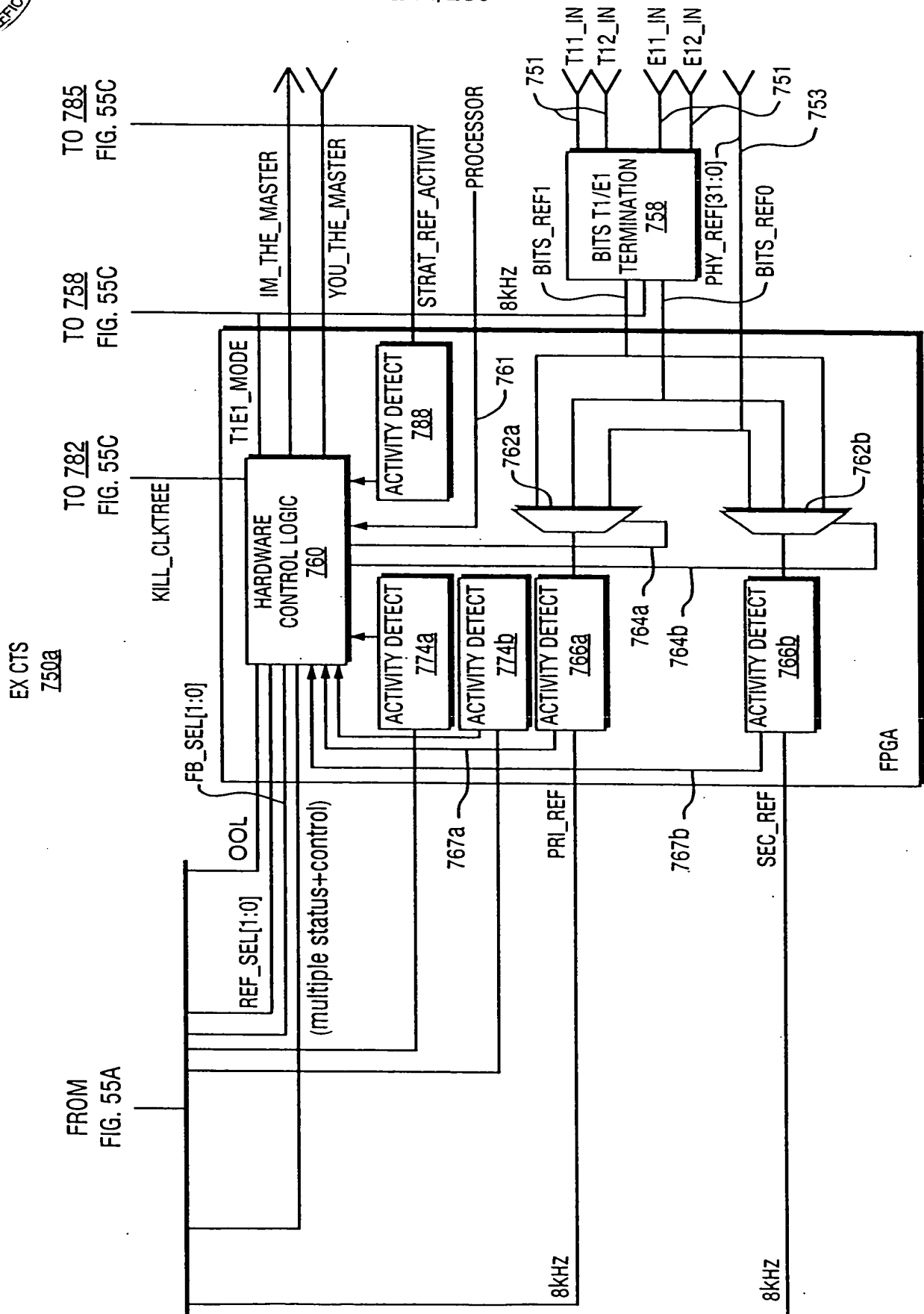
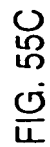


FIG. 54B







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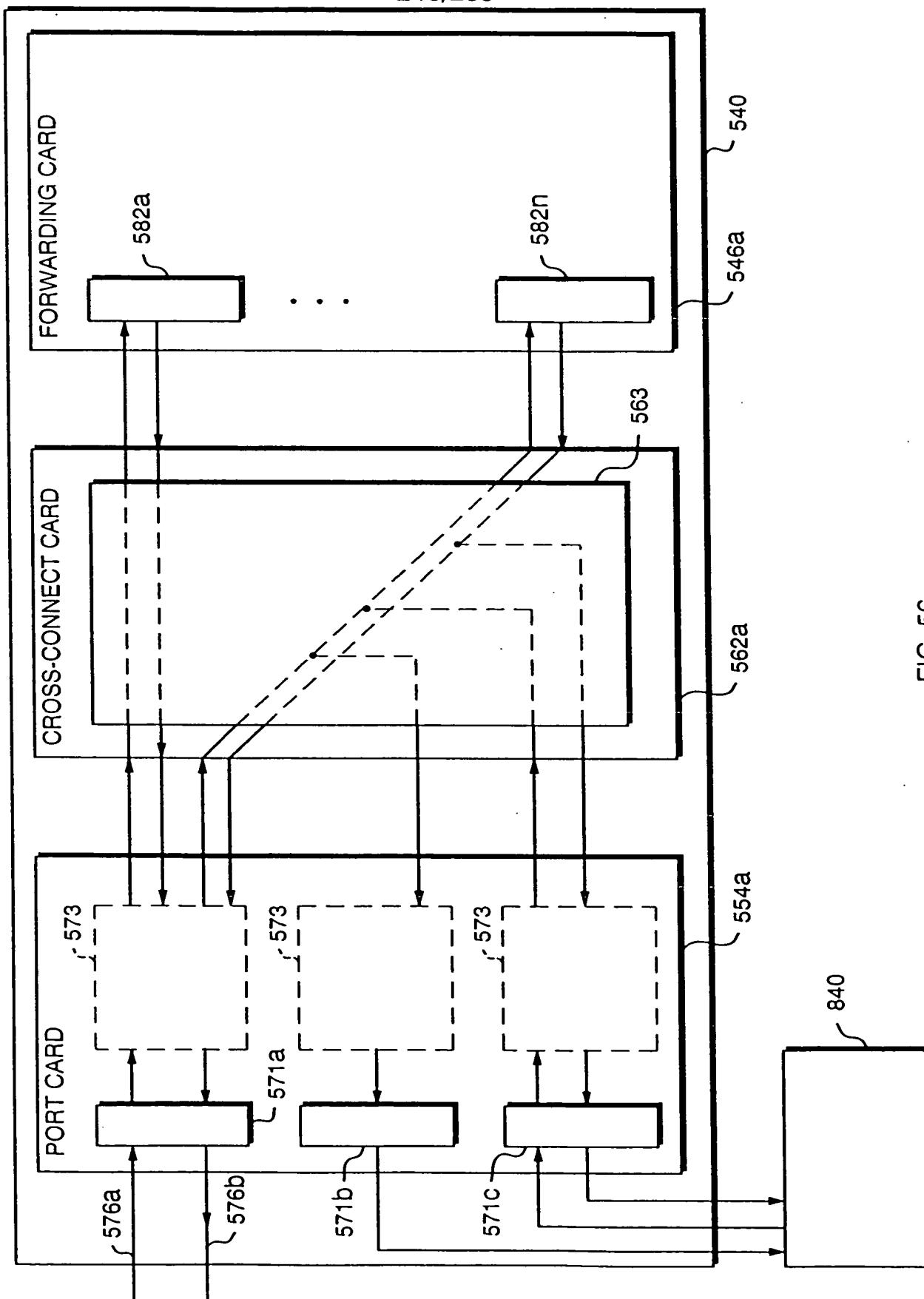


FIG. 56

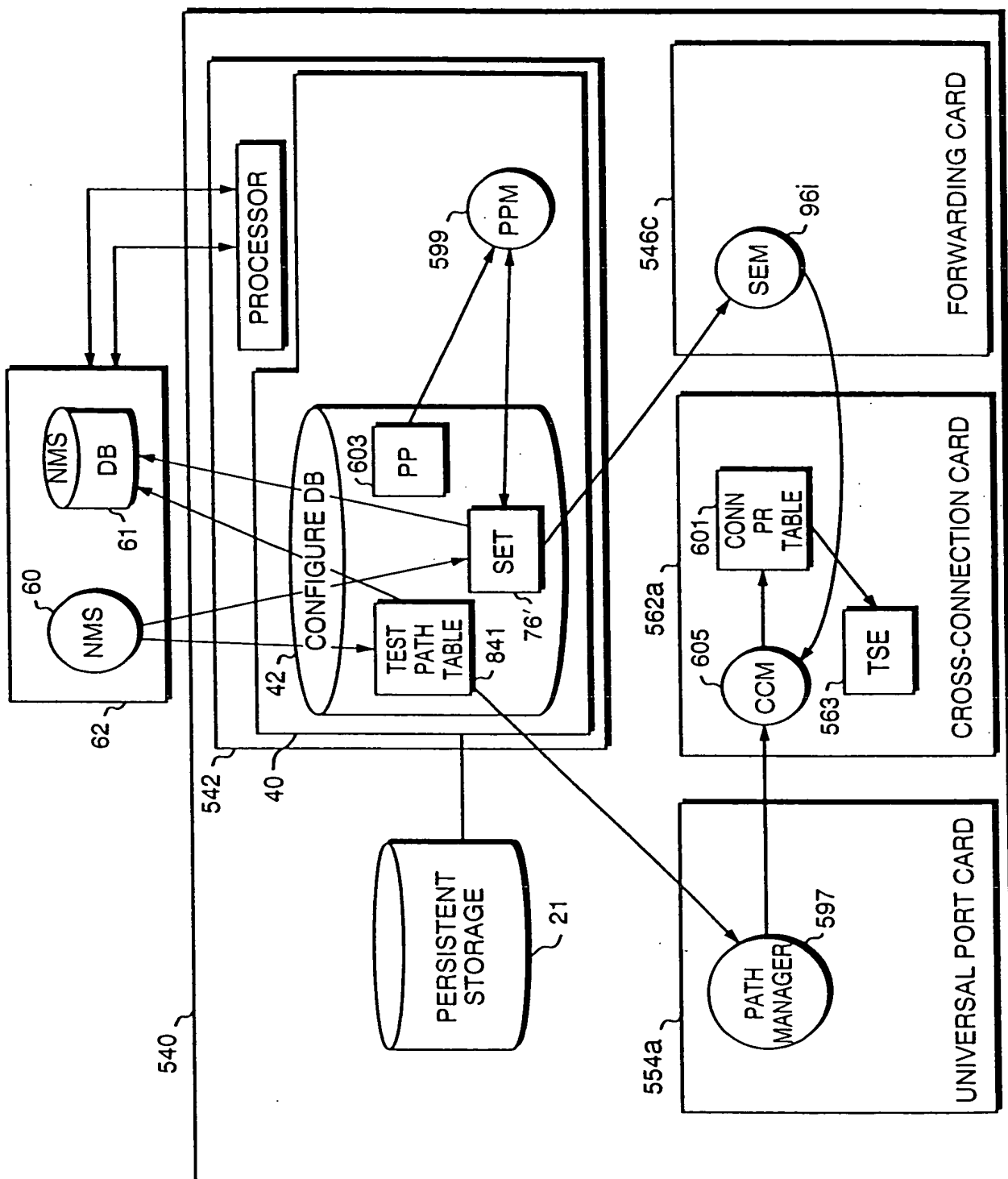


FIG. 57



TEST PATH TABLE 841

842			844			845		
PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	MONITOR	ENABLE PORT RECEIVER	...		
1666	1232	4	3	INGRESS	NO			
1666	1233	4	3	EGRESS	NO			
1666	1233	4	3	INGRESS	YES			
.		
.		
.		

FIG. 58

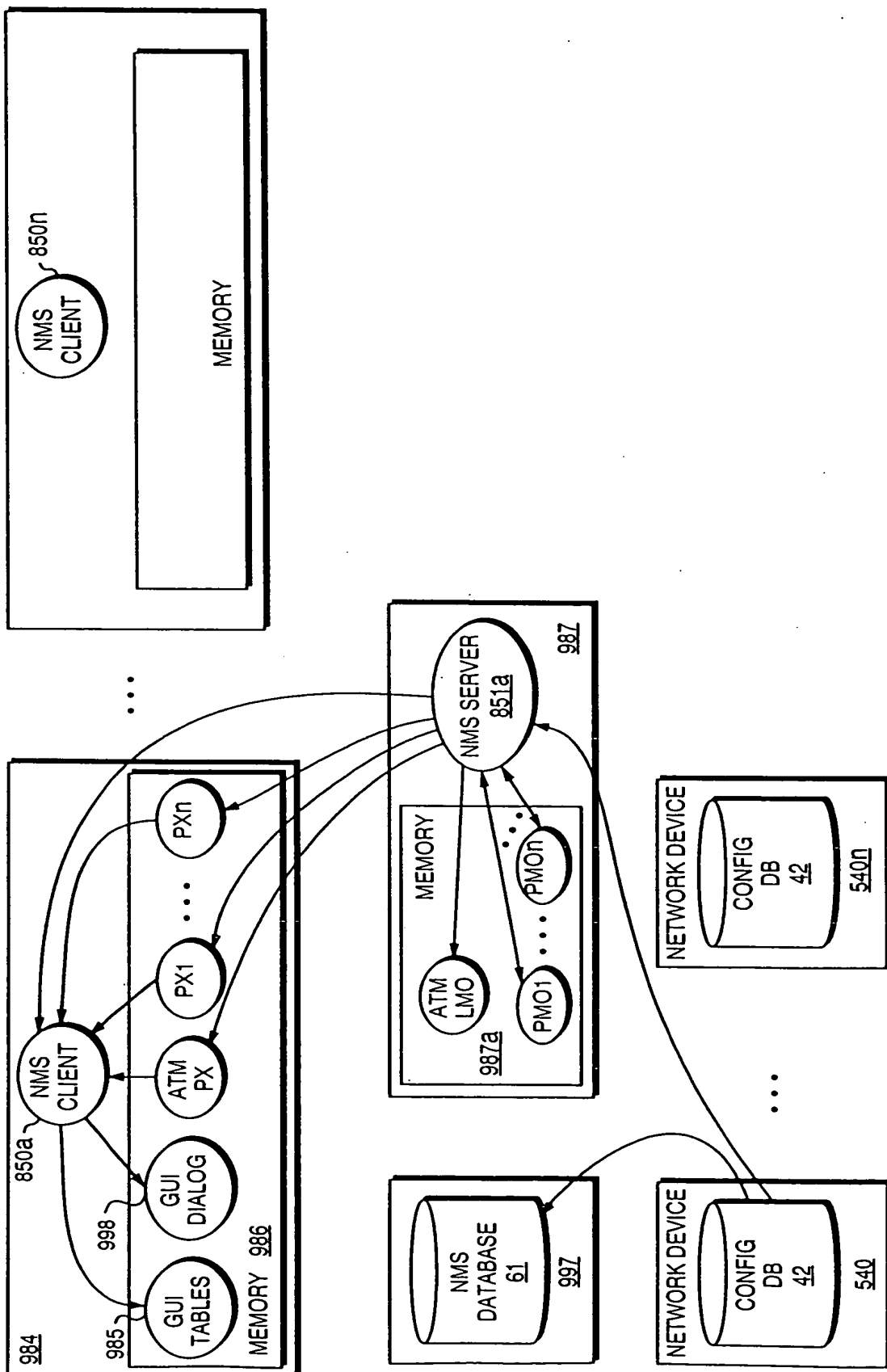


FIG. 59



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MANAGED DEVICE TABLE 983

983b	PID	A1	...	An	983a
	1				

FIG 60A

CHASSIS TABLE 988

988b	PID	A1	...	An	MANAGED DEVICE PID	988c
	1				1	988a
	
	

FIG 60B

SHELF TABLE 989

989a	PID	A1	...	An	CHASSIS PID	989b
	3				2	
	4				2	
	
	

FIG 60C

SLOT TABLE 990

990a	PID	A1	...	An	SHELF PID	990b
	20				3	
990c	21				3	
	
990d	116				18	
	

FIG 60D



CARD TABLE 47'

47a

47b

PID	CWD TYPE	VERSION NO.	SLOT PID	...
120	0XF002	3	20	
121	0XF002	4	21	
⋮	⋮	⋮	⋮	⋮
124	0X6002	1	24	
⋮	⋮	⋮	⋮	⋮
131	0XF002	1	31	
⋮	⋮	⋮	⋮	⋮

FIG 60E

PORT TABLE 49'

49a

49b

PID	PORT TYPE	VERSION NO.	CARD PID	...
300	00620	1	20	
301	00620	1	20	
302	00620	1	20	
303	00620	1	20	
304	00820	1	20	
⋮	⋮	⋮	⋮	⋮
400	00620	1	39	
⋮	⋮	⋮	⋮	⋮

FIG 60F



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SONET PATH TABLE 600'

600a

600b

PATH LID	PORT LID	TIME SLOT	# OF TIME SLOTS	...
901	304	4	3	
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•

FIG. 60G

SERVICE ENDPOINT TABLE 76''

76a

76c

76d

76e

76b

SE LID	Q #	FC PID	FC SLICE PID	FC TIME SLOT	PATH LID	...
3000					901	
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•

FIG. 60H

ATM IF TABLE 114''

114a

114b

ATM IF LID	ATM GROUP LID	SE LID	...
5054		3000	...
•	•	•	•
•	•	•	•
•	•	•	•

FIG. 60I



VIRTUAL ATM IF TABLE 993

993a	LID	A1	...	An	993b ATM IF LID
	7489				5054
	⋮	⋮	⋮	⋮	⋮

FIG 60J

VIRTUAL CONNECTION TABLE 994

994a	LID	A1	...	An	994b VIR. ATM IF LID
	⋮	⋮	⋮	⋮	⋮

FIG 60K

VIRTUAL LINK TABLE 995

995a	LID	A1	...	An	995b VIR. CONN. LID	995c CROSS. CONN. LID
	⋮	⋮	⋮	⋮	⋮	⋮

FIG 60L

CROSS-CONNECT TABLE 996

996a	LID	A1	...	An	996b VIR. LINK1 LID	996c VIR. LINK2 LID
	⋮	⋮	⋮	⋮	⋮	⋮

FIG 60M

ATM NODE TABLE 999

999a	LID	A1	...	An	999b MANAGED DEVICE PID	999c
	5000				1	

FIG 60N



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PHYSICAL MANAGED OBJECT 991

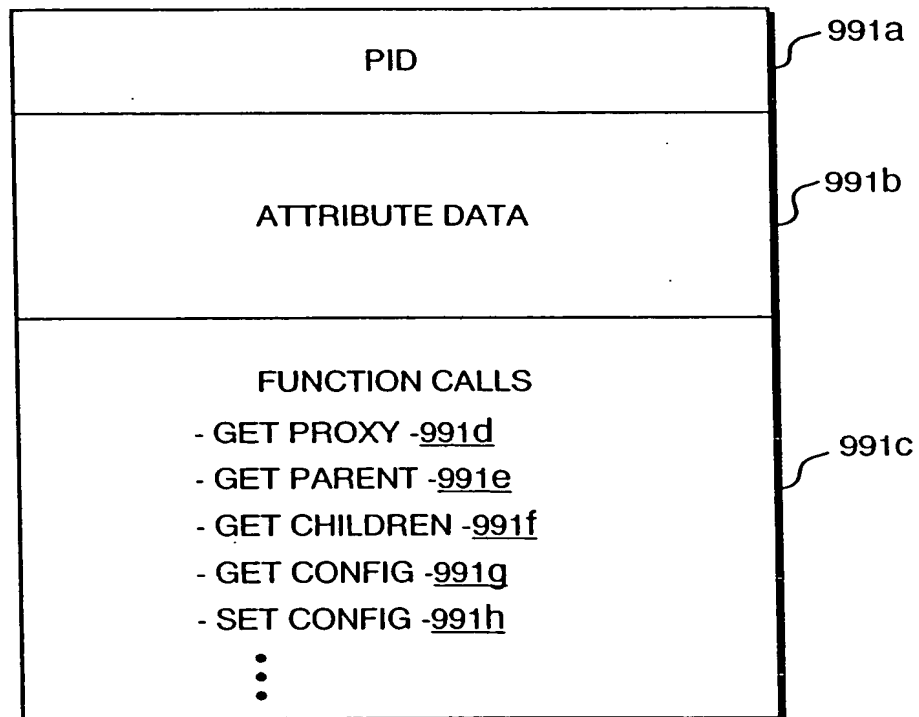


FIG. 61A



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PROXY 992

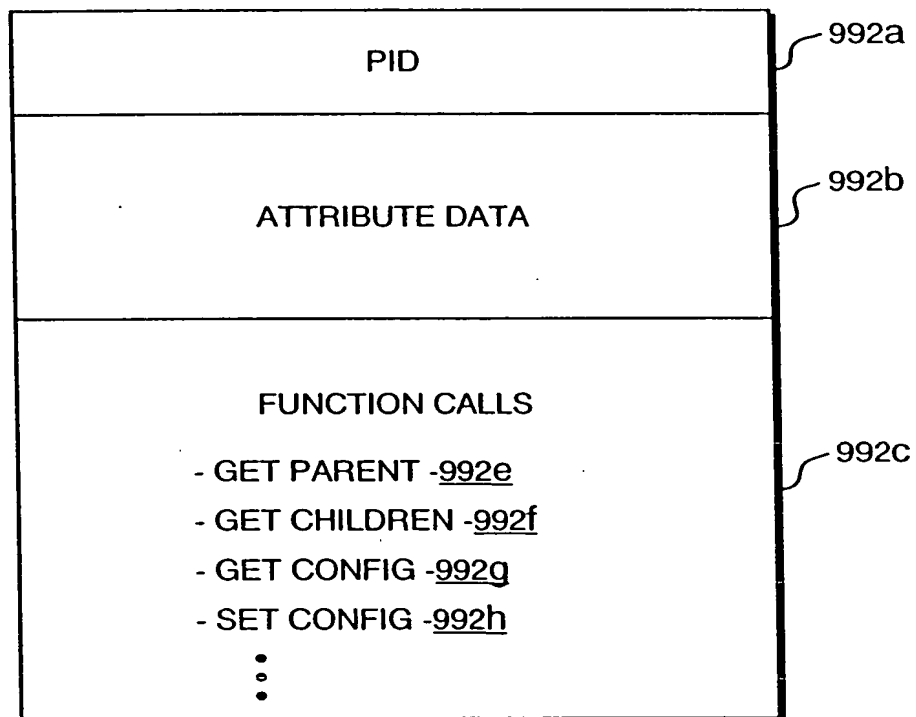


FIG. 61B



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997

EvailNet Manager: Modify SONET Path - Shelf 11/Slot4/Port 1

X

System: 192.168.9.202

SONET Path Parameters

Path Name

Path1_11/4/1

Path Number

1

Path Width

STS-3c

Path Type

Terminated-ATM

Connection Information

Connected SONET Path

☒ None

☐ Specific

Paths...

ATM Interface Name

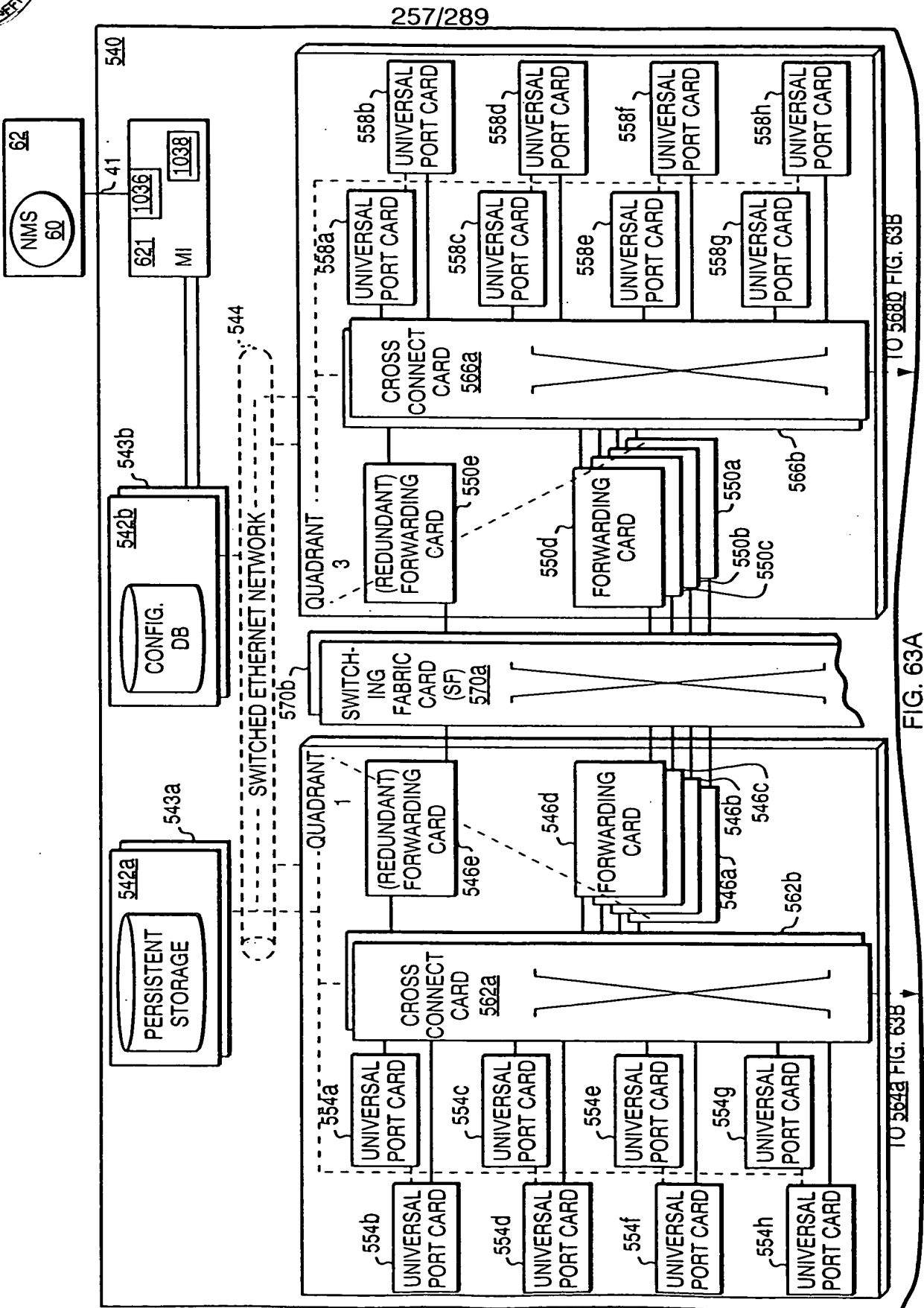
Modules

OK

Cancel

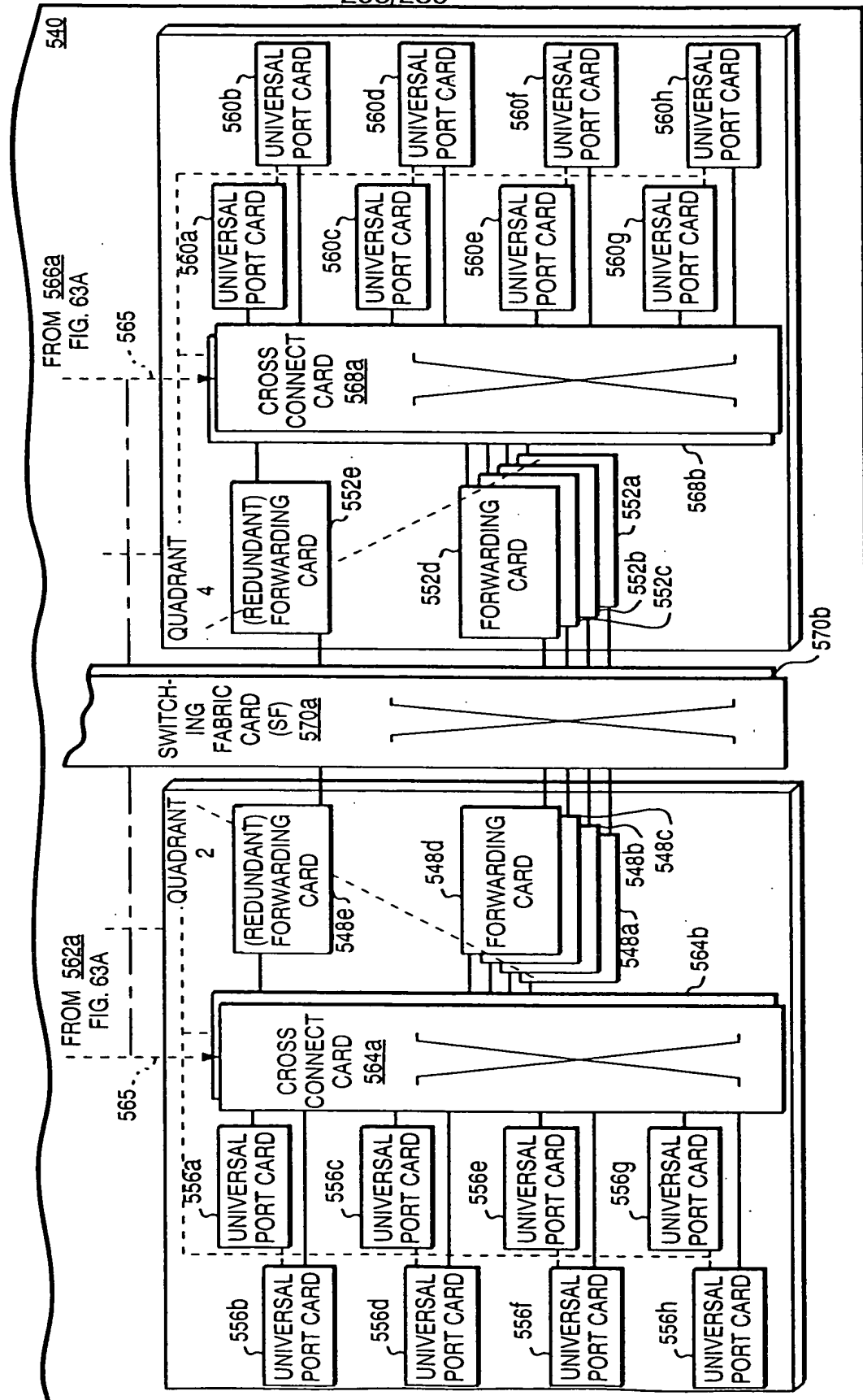
998b 997a

FIG. 62





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ADMINISTRATION MANAGED DEVICE TABLE 1014'

1014a' {					1014e' { 1014f'				
LID	HOST ADDRESS	PORT ADDRESS	RETRY	TIMEOUT	ADMIN. PASSWORD	PROV. PASSWORD	VIEWER PASSWORD	PHYSICAL ID	PHYSICAL ID
9046	192.168.9.202	1521			TEAM 1	TEAM 2	TEAM 3		
.
.
.

FIG. 64

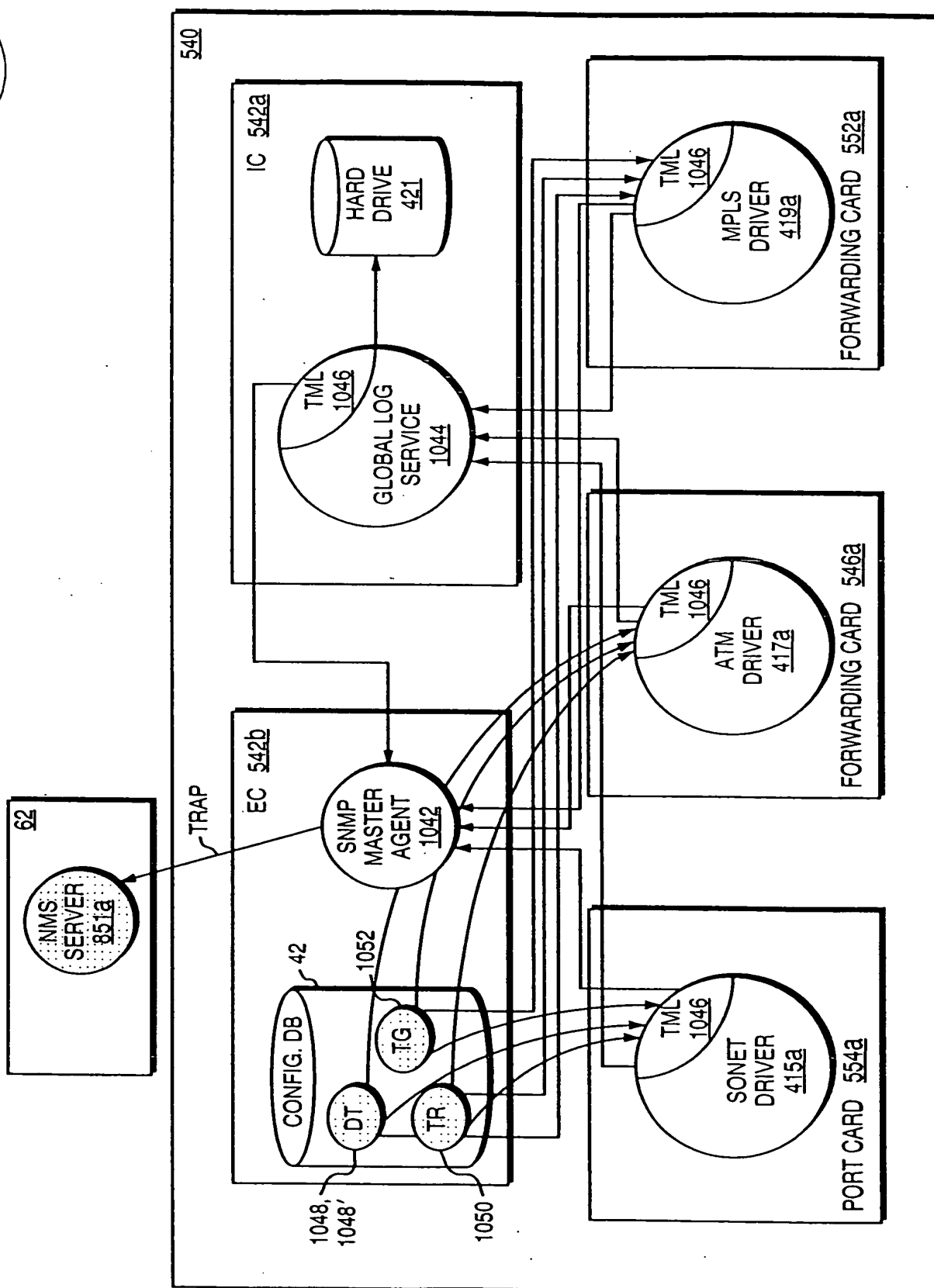


FIG. 65

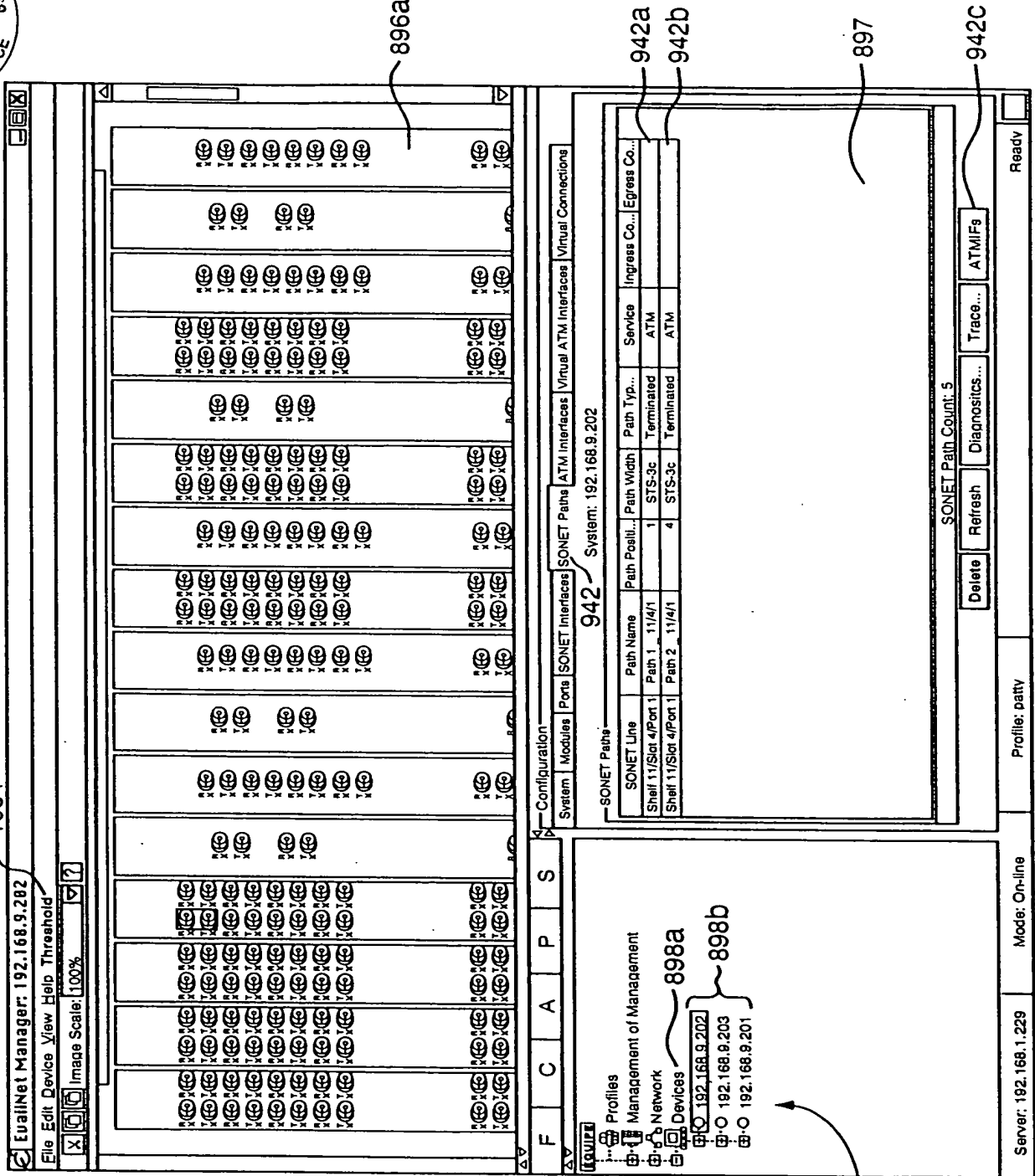
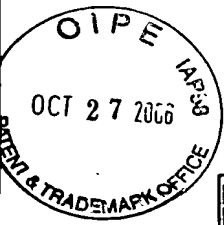


FIG. 66A



895

1054

EvalNet Manager: 192.168.9.202

File Edit Device View Help Threshold

Image Scale: 100%

Configuration

System: 192.168.9.202

Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections

947

947a

947b

947c

Server: 192.168.1.229 Mode: On-line

Profile: pathy

Ready

Virtual Connections>>

Refresh

Delete...

Add...

<<back

947a

947b

947c

192.168.9.202

Shelf 11

Slot 1

Slot 2

Slot 3

Slot 4

Port 1

ATM-Path1 11/4/

ATM-Path2 11/4/

Port 2

Port 3

Port 4

Port 5

Port 6

Port 7

Port 8

Port 9

Management of Management

Network

Devices

192.168.9.202

FIG. 66C



895

1054

EvalNet Manager: 192.168.9.202
File Edit Device View Help Threshold
Image Scale: 100%

Configuration

System Modules Ports SONET Interfaces ATM Interfaces Virtual ATM Interfaces Virtual Connections

System: 192.132.60.150

948C

948b

948a

Profiles
Management of Management
Network
Devices
192.168.9.202

Server: 192.168.1.229 Mode: On-line

Profile: paty

Ready

948

Name	Interface	Shell/Slot/Port	VPI	VCI	Type	Topology
test	test2	11/4/1	5		VPC	P2P

948C

Slot 1
Slot 2
Slot 3
Slot 4
Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8
Port 9
Port 10
Port 11

ATM-Path1 11/4
ATM-Path2 11/4

test1
test2

948b

948a

FIG. 66D

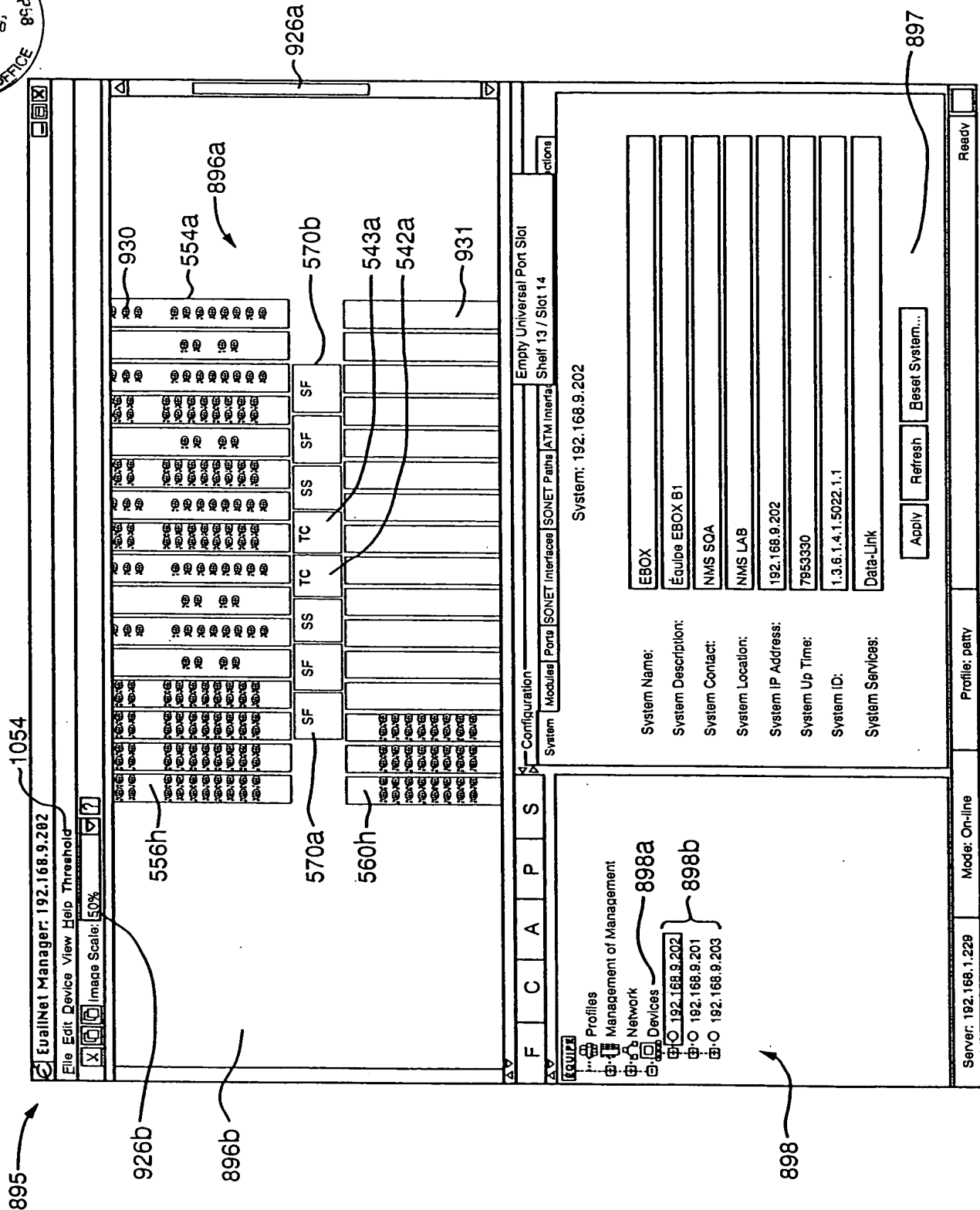
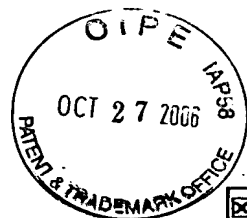


FIG. 66E



1056

THRESHOLD DIALOG BOX

1056a	RESOURCE:	<div>1056j</div>	<div>1056f</div>
1056b	ATTRIBUTE:		
1056c	THRESHOLD RULE:	<div>1056k</div>	<div>1056g</div>
1056d	SAMPLING FREQUENCY:		
1056e	ACTION:	<div>1056l</div>	<div>1056h</div>
	<div>1056o</div> <input type="checkbox"/> LOG	<div>1056m</div>	<div>1056i</div>
	<div>1056n</div> <input type="checkbox"/> NMS		
	<div>OK</div>	<div>CANCEL</div>	

1056p

FIG. 67



DYNAMIC THRESHOLD TABLE 1048

1048a {		1048c {	1048d {	1048e {	1048f {
RESOURCE ID	ATTRIBUTE	SAMPLING FREQ.	ACTION	RULE	
1048g {	901	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	IF ATTRIBUTE > 10
	901	PATH ERRORS (PATH END)	15 min	TRAP	IF ATTRIBUTE < 5 OR > 10
	901	PATH ERRORS (PATH END)	5 min	LOG & TRAP	IF ATTRIBUTE < 5 OR > 10
1048h {	:	:	:	:	:
	:	:	:	:	:
	5054	FAILED CALL ATTEMPTS	10 min	TRAP	IF ATTRIBUTE > 8 BETWEEN 8:00am-7:00pm OR > 2 BETWEEN 7:00pm-8:00am
	5054	HCS ERRORS	12 min	TRAP	IF ATTRIBUTE > 13
	:	:	:	:	:
	7312	RX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE < 4
	7312	TX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE = 0
	:	:	:	:	:
	:	:	:	:	:
	:	:	:	:	:

FIG. 68



DYNAMIC THRESHOLD TABLE 1048'

1048a'	1048b'	1048c'	1048d'	1048e'	1048f'
THR. GROUP LID	RESOURCE	ATTRIBUTE	SAMPLING FREQ.	ACTION	RULE
8312	SONET PATH	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	IF ATTRIBUTE > 10
8312	SONET PATH	PATH ERRORS (PATH END)	15 min	TRAP	IF ATTRIBUTE < 5 OR > 10
8312	SONET PATH	PATH ERRORS (FAR END)	5 min	LOG & TRAP	IF ATTRIBUTE < 5 OR > 10
.
.
.
8433	ATM IF	FAILED CALL ATTEMPTS	10 min	TRAP	IF ATTRIBUTE > 8 BETWEEN 8:00am-7:00pm OR > 2 BETWEEN 7:00pm-8:00am
8433	ATM IF	HCS ERRORS	12 min	TRAP	IF ATTRIBUTE > 13
.
.
.
8542	VIRTUAL CONN.	RX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE < 4
8542	VIRTUAL CONN.	TX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE = 0
.
.
.

FIG. 69A



THRESHOLD GROUP TABLE 1052

1052a	RESOURCE ID	THRESHOLD GROUP LID	1052b
	901	8312	
	902	8313	
	903	8312	
	⋮	⋮	
	5054	8433	
	⋮	⋮	
	7312	8542	

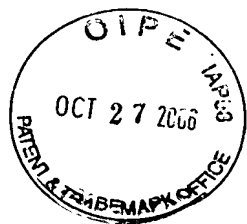
FIG. 69B



DYNAMIC THRESHOLD TABLE 1048''

1048a''	1048b''	1048c''	1048d''	1048e''	1048f''	1048g''	1048h''	1048i''	1048j''	1048k''	1048l''	1048m''	1048n''
THR. GROUP LID	RESOURCE	ATTRIBUTE	SAMPLING FREQ.	ACTION	RULE LID	VARIAB. a	VARIAB. b	VARIAB. c	VARIAB. d	VARIAB. e	VARIAB. f	...	VARIAB. n
8312	SONET PATH	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	9421	10							
8312	SONET PATH	PATH ERRORS (PATH END)	15 min	TRAP	9422	5	10						
8312	SONET PATH	PATH ERRORS (FAR END)	5 min	LOG & TRAP	9422	5	10						
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
8433	ATM IF	FAILED CALL ATTEMPTS	10 min	TRAP	9423	8	8:00am	7:00pm	2	7:00pm	8:00am		
8433	ATM IF	HCS ERRORS	12 min	TRAP	9421	13							
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
8542	VIRTUAL CONN.	RX TRAFFIC	1 HOUR	TRAP	9424	4							
8542	VIRTUAL CONN.	TX TRAFFIC	1 HOUR	TRAP	9425								
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 70A



THRESHOLD RULE TABLE 1050

1050a	RULE LID	EXPRESSION	1050b
1050c	9421	IF ATTRIBUTE > a	
	9422	IF ATTRIBUTE < a OR > b	
	9423	IF ATTRIBUTE > a BETWEEN b-c OR > d BETWEEN e-f	
	9424	IF ATTRIBUTE < a	
	9425	IF ATTRIBUTE = 0	
	9426	RMON	
	9427	FOE	
	9428	IF ATTRIBUTE < a GO TO RULE LID b	
	⋮	⋮	

FIG. 70B

1048a''' 1048b''' 1048c''' 1048d''' 1048e''' 1048f''' 1048g''' 1048h''' 1048i''' 1048j''' 1048k''' 1048l''' 1048m''' 1048n''' 1048o''' 1048p''' 1048q''' 1048r''' 1048s''' 1048t''' 1048u''' 1048v''' 1048w''' 1048x''' 1048y''' 1048z'''

FIG. 71

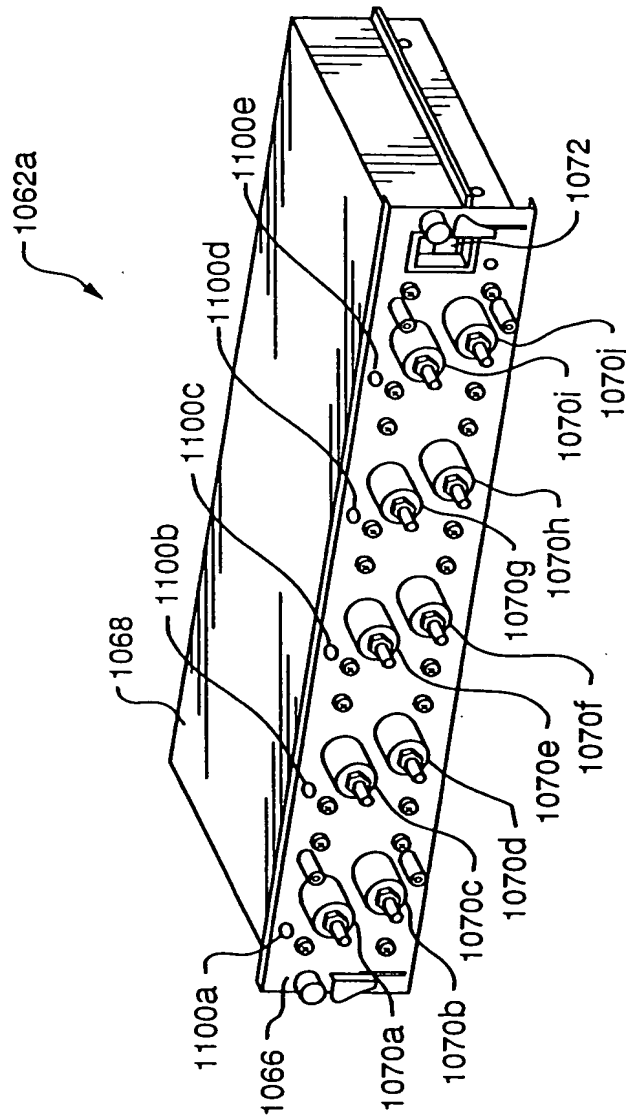


FIG. 72A

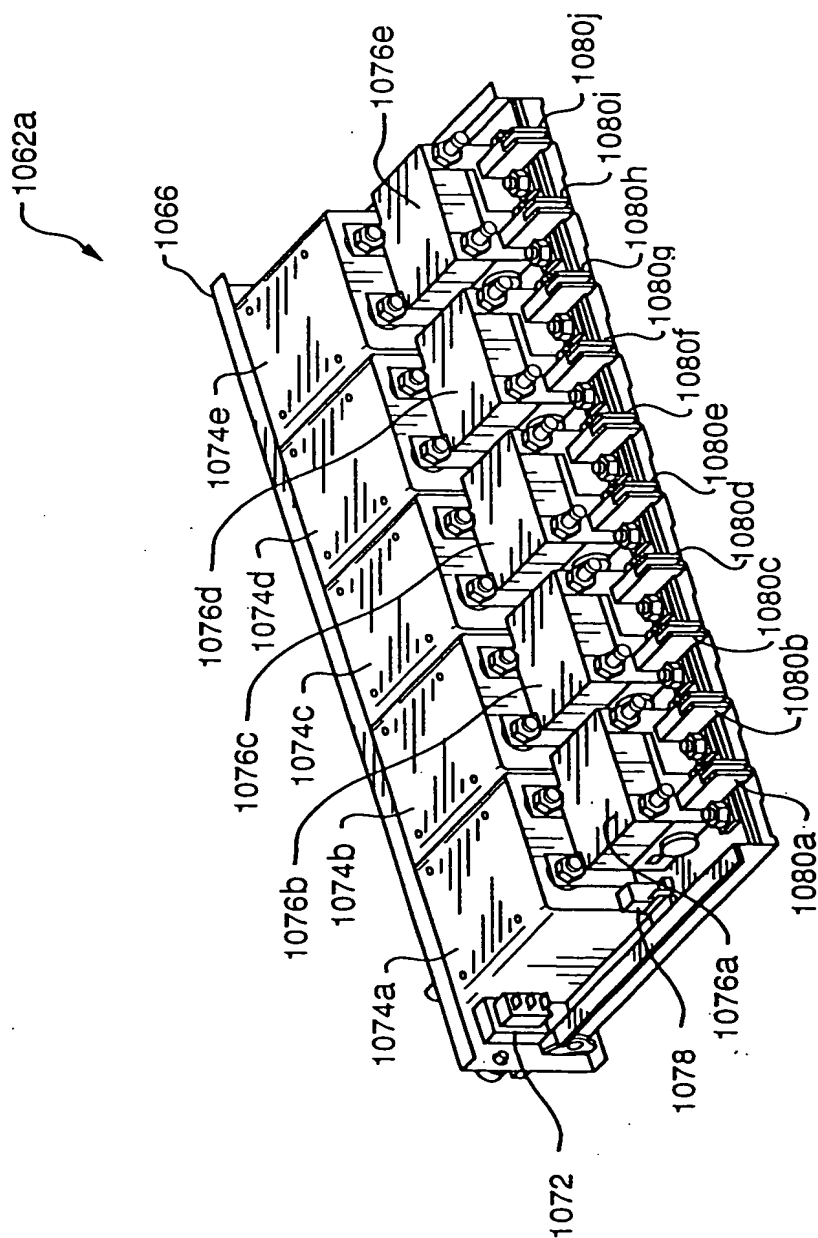
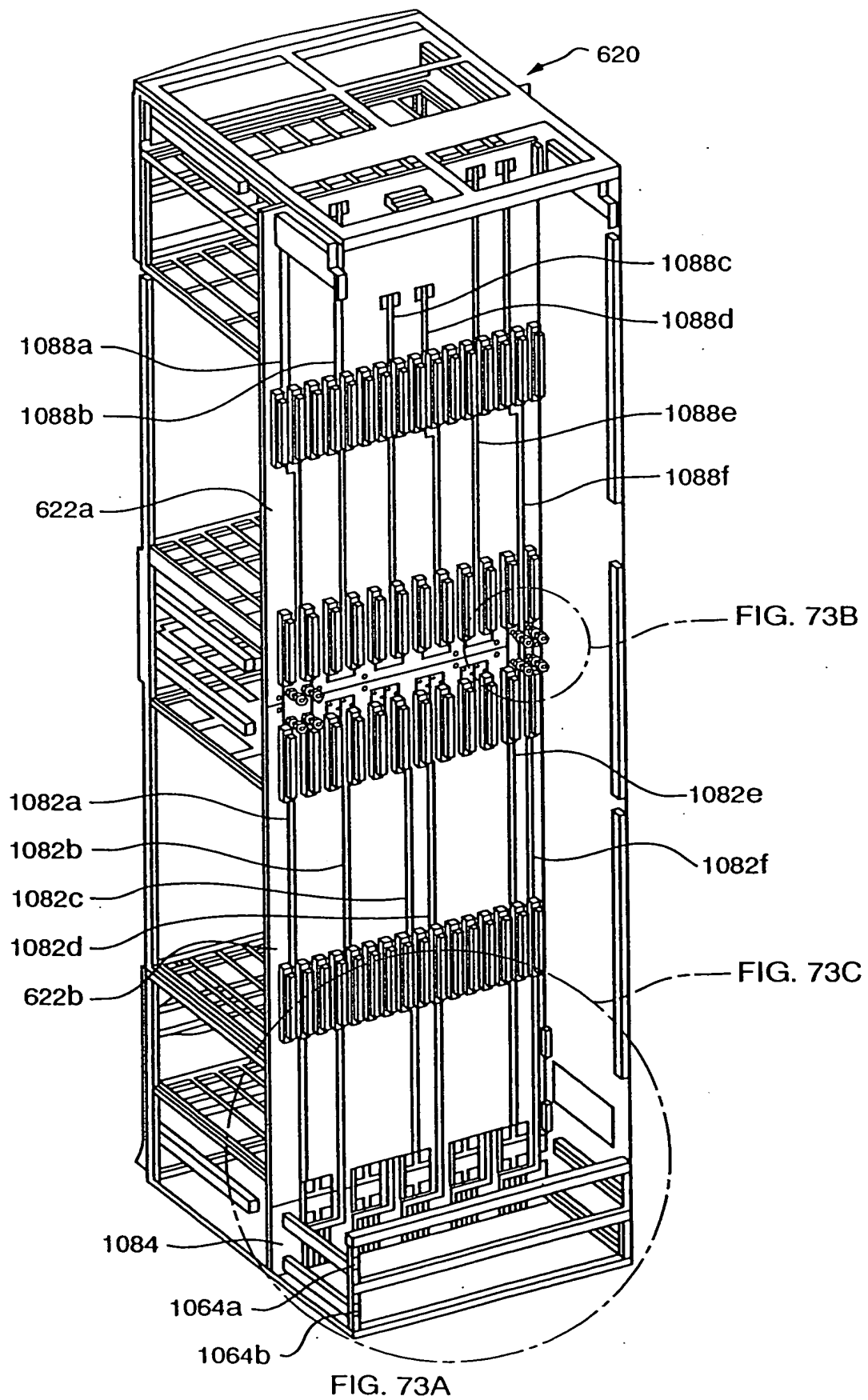


FIG. 72B



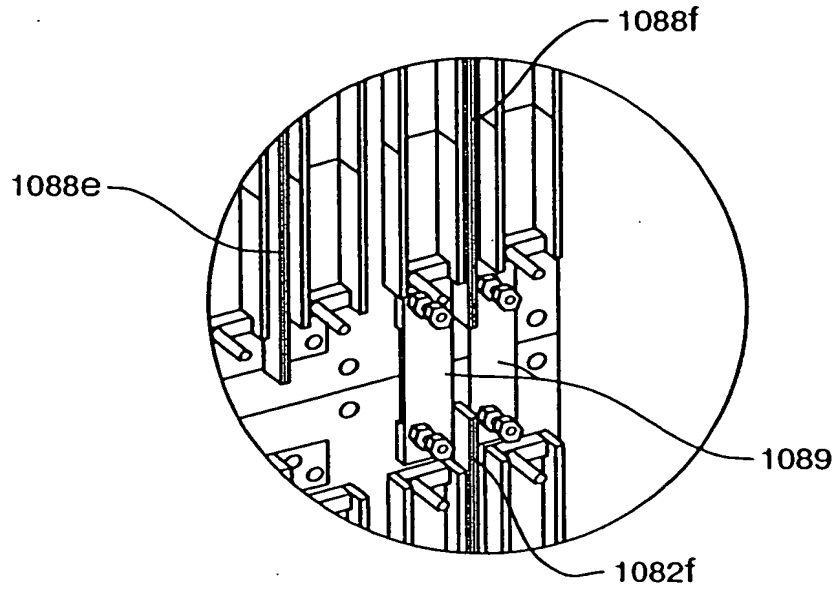


FIG. 73B

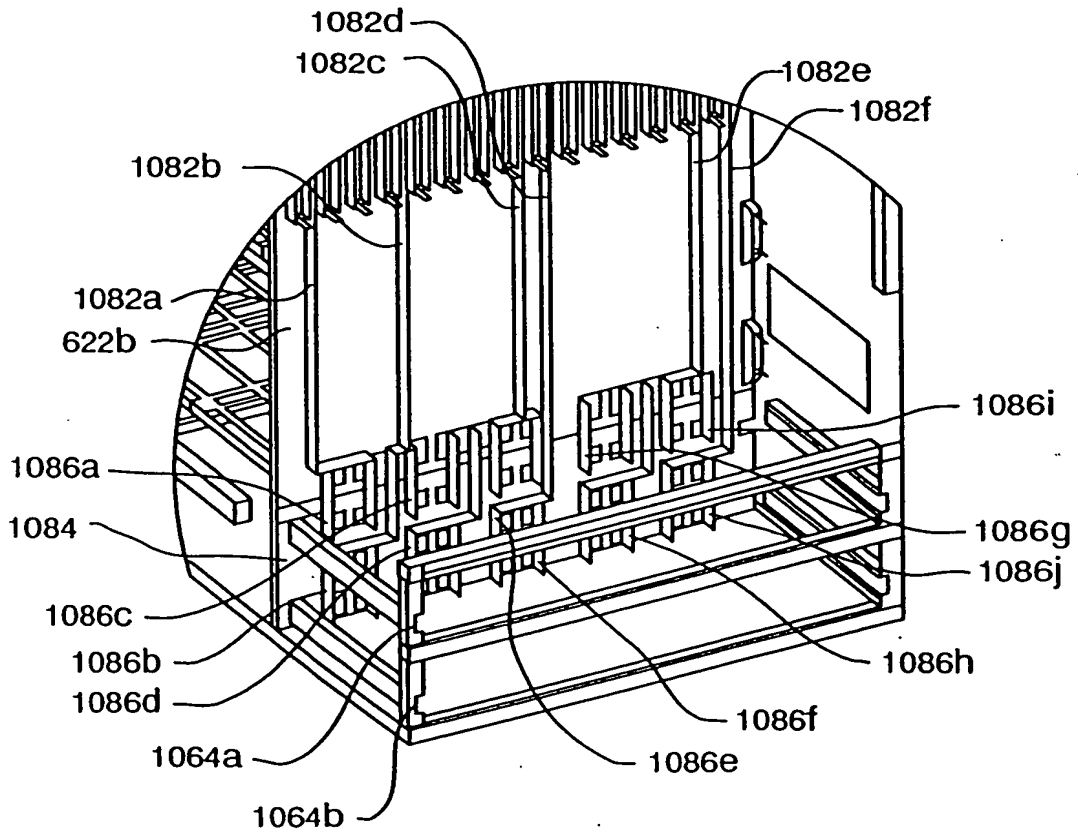


FIG. 73C

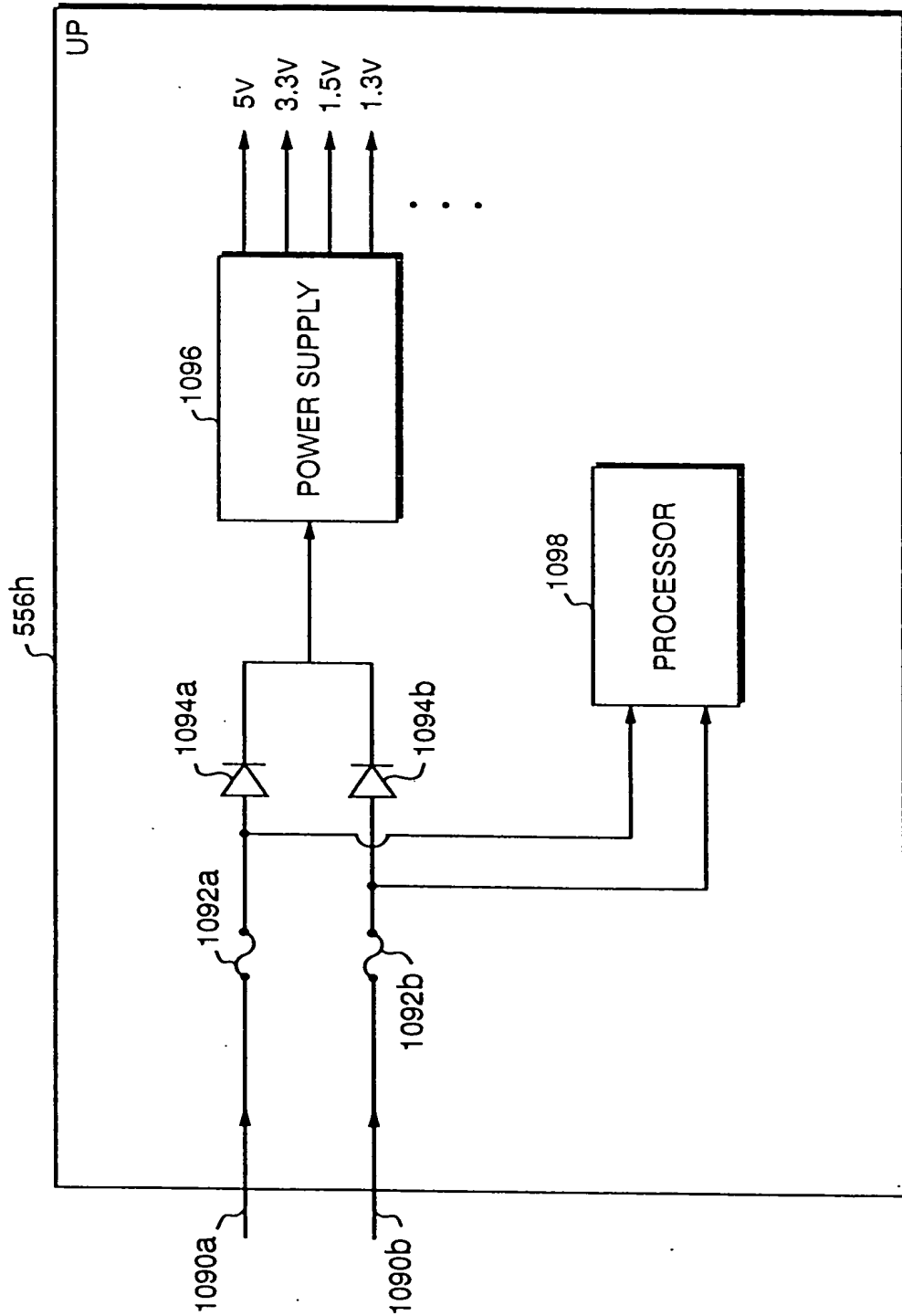
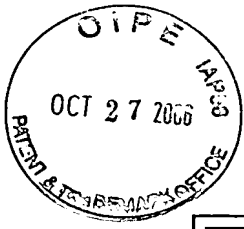


FIG. 74



1102

EvailNet Manager: 192.168.9.202-Virtual Connection Wizard

Source: 192.168.9.202 Destination: 192.168.9.202

End Point 1

- Slot 4
 - Port 1
 - ATM-Path1_11/4/1
 - ATM-Path2_11/4/1
 - test1
 - test2
 - Port 2
 - Port 3
 - Port 4

End Point 1

- Slot 3
- Slot 4
- Slot 5
 - Port 1
 - Port 2
 - ATM-Path1_11/5/2
 - test3
 - ATM-Path2_11/5/2
 - ATM-Path3_11/5/2

Connection Parameters

Connection Name: test

Admin Status: Up

Customer Name:

End Point 1 Parameters:

VPI: 1102e VPI Index

VCI:

Transmit Traffic Descriptor: VBR-high Add Traffic Descriptor...

Receive Traffic Descriptor: VBR-high

☐ Use the same Traffic Descriptor for both Transmit and Receive

End Point 2 Parameters:

VPI: 1102f VPI Index

VCI:

Transmit Traffic Descriptor: VBR-high Add Traffic Descriptors...

Receive Traffic Descriptor: VBR-high

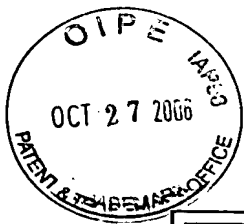
☐ Use the same Traffic Descriptor for both Transmit and Receive

<<Back Finish Cancel

1102a

1102b

FIG. 75



1102

EvailNet Manager: 192.168.9.202-Virtual Connection Wizard

Source: 192.168.9.202 Destination: 192.168.9.202

End Point 1

Slot 4
 Port 1
 ATM-Path1_11/4/1
 ATM-Path2_11/4/1
 test1
 test2
 Port 2
 Port 3
 Port 4

End Point 1

Slot 3
Slot 4
Slot 5
 Port 1
 Port 2
 ATM-Path1_11/5/2
 test3
 ATM-Path2_11/5/2
 ATM-Path3_11/5/2

Connection Parameters

Connection Name: test

Admin Status: Up

Customer Name:

End Point 1 Parameters:

VPI: 1102e VPI/VCI Index

VCI: 1102g

Transmit Traffic Descriptor: VBR-high Add Traffic Descriptor...

Receive Traffic Descriptor: VBR-high

☐ Use the same Traffic Descriptor for both Transmit and Receive

End Point 2 Parameters:

VPI: 1102f VPI/VCI Index

VCI: 1102h

Transmit Traffic Descriptor: VBR-high Add Traffic Descriptors...

Receive Traffic Descriptor: VBR-high

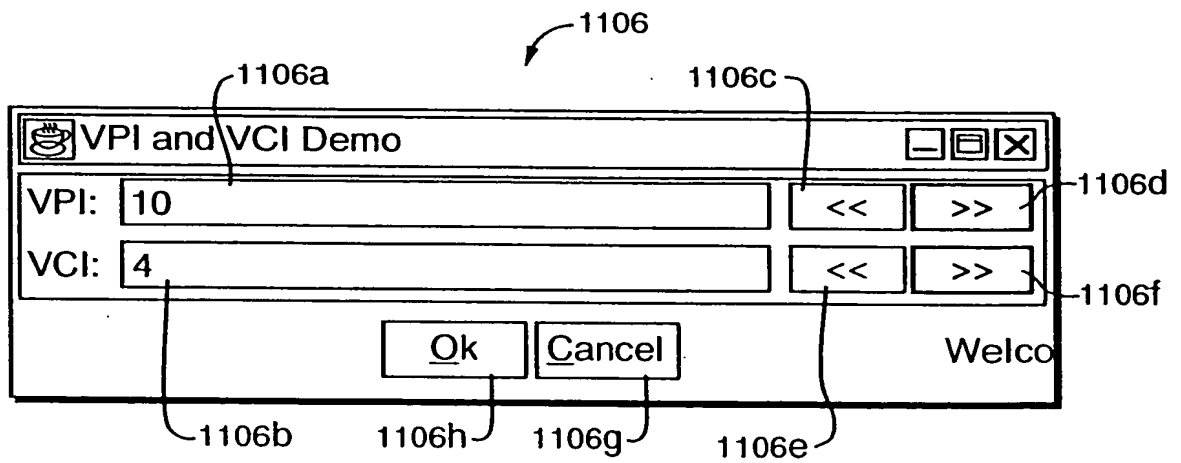
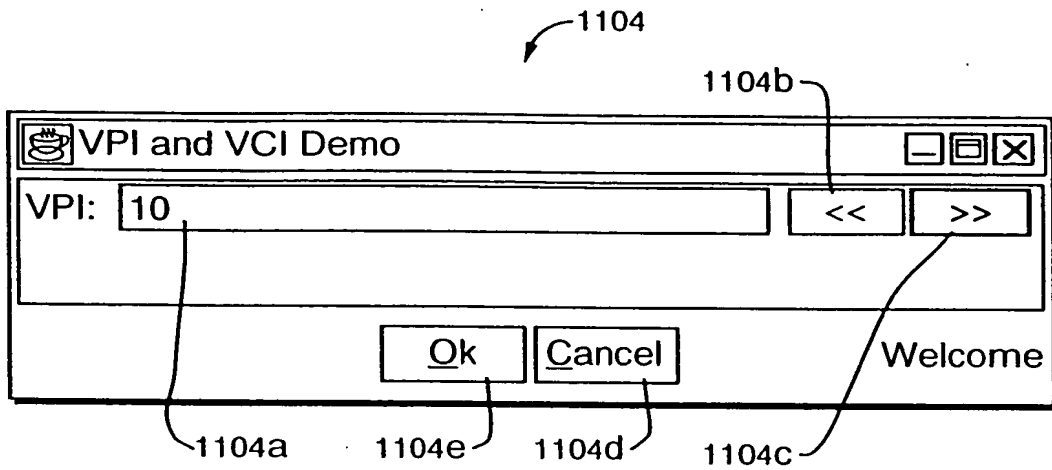
☐ Use the same Traffic Descriptor for both Transmit and Receive

<<Back Finish Cancel

1102c

1102d

FIG. 76





1102

EvailNet Manager: 192.168.9.202-Virtual Connection Wizard

Source: 192.168.9.202 Destination: 192.168.9.202

End Point 1

- Slot 4
 - Port 1
 - ATM-Path1_11/4/1
 - ATM-Path2_11/4/1
 - test2
 - test1
 - Port 2
 - Port 3
 - Port 4

End Point 1

- Slot 3
- Slot 4
- Slot 5
 - Port 1
 - Port 2
 - ATM-Path1_11/5/2
 - test3
 - ATM-Path2_11/5/2
 - ATM-Path3_11/5/2

Connection Parameters

Connection Name:

Admin Status:

Customer Name:

End Point 1 Parameters:

VPI: ☐ Use Any VPI Value

VCI: ☐ Use Any VCI Value

Transmit Traffic Descriptor:

Receive Traffic Descriptor:

☐ Use the same Traffic Descriptor for both Transmit and Receive

End Point 2 Parameters:

VPI: ☐ Use Any VPI Value

VCI: ☐ Use Any VCI Value

Transmit Traffic Descriptor:

Receive Traffic Descriptor:

☐ Use the same Traffic Descriptor for both Transmit and Receive

FIG. 79

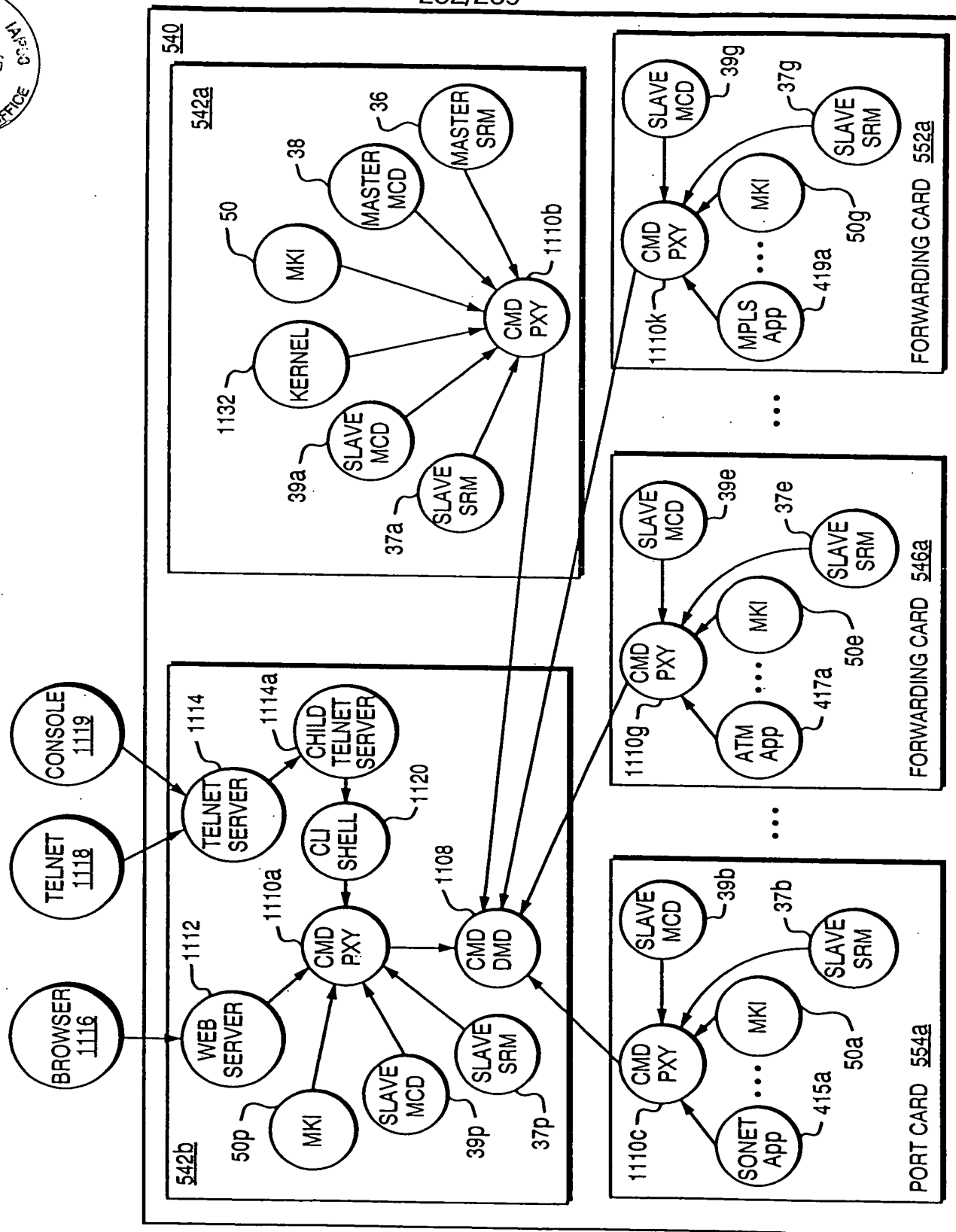


FIG. 80

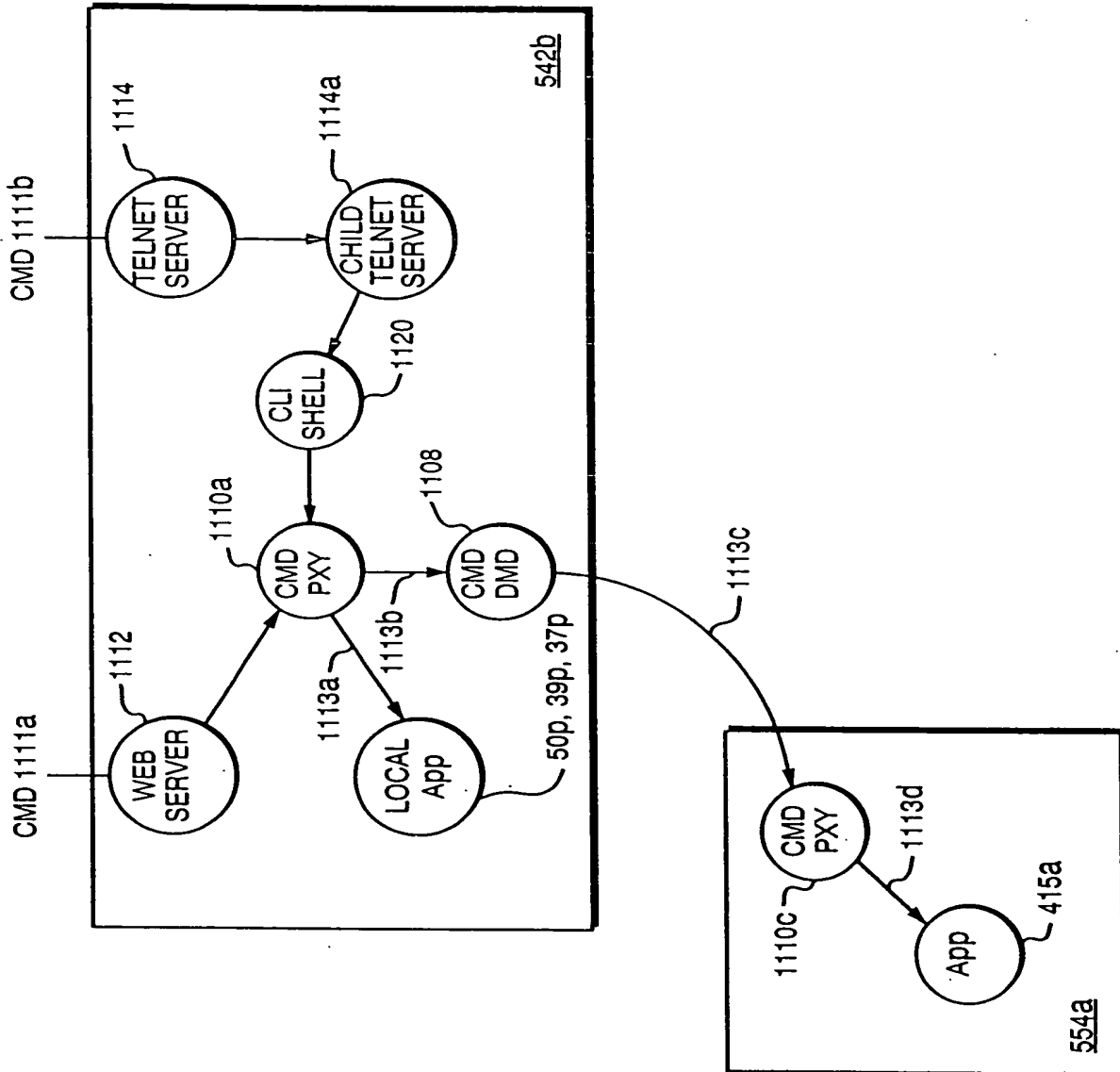


FIG. 81

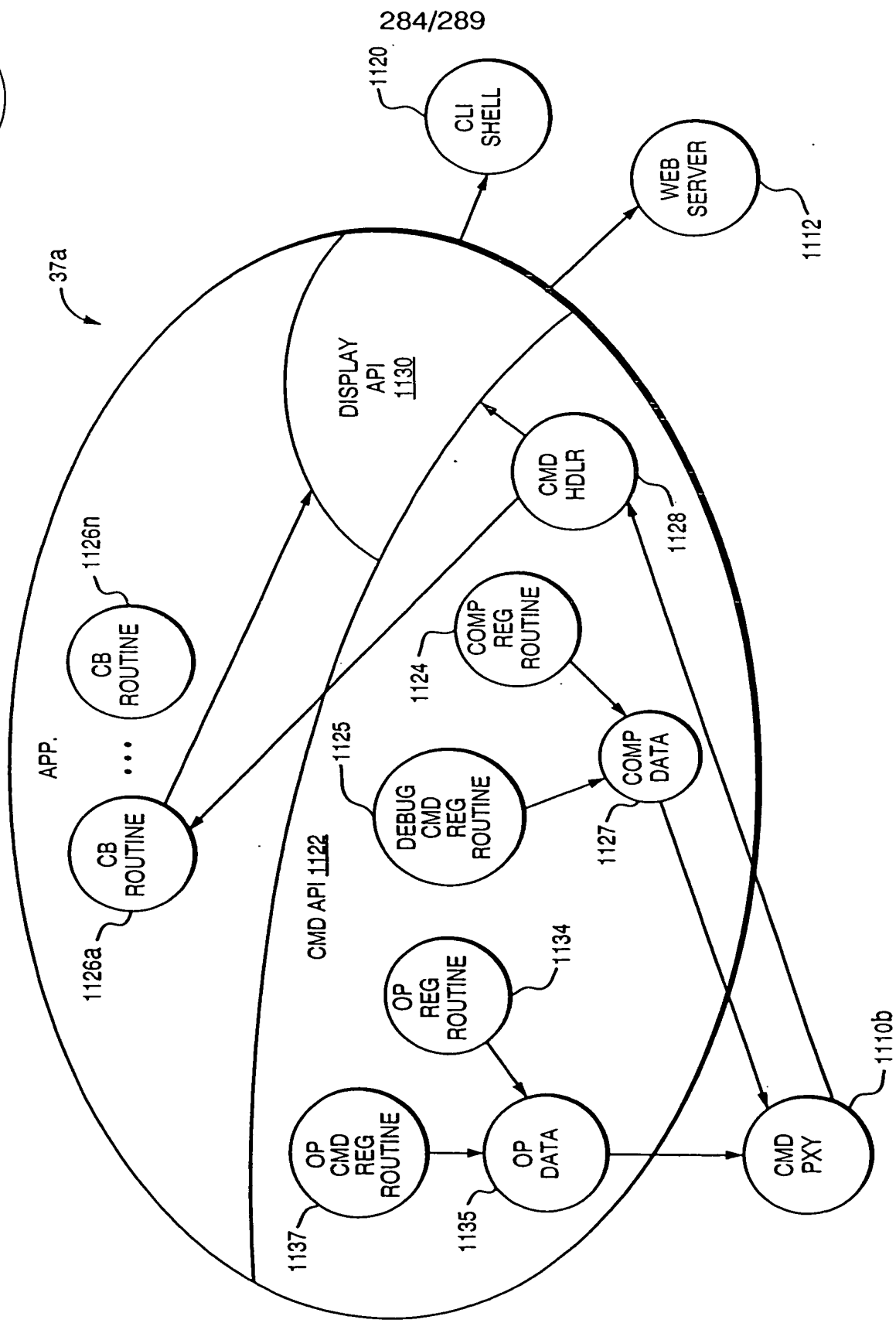


FIG. 82

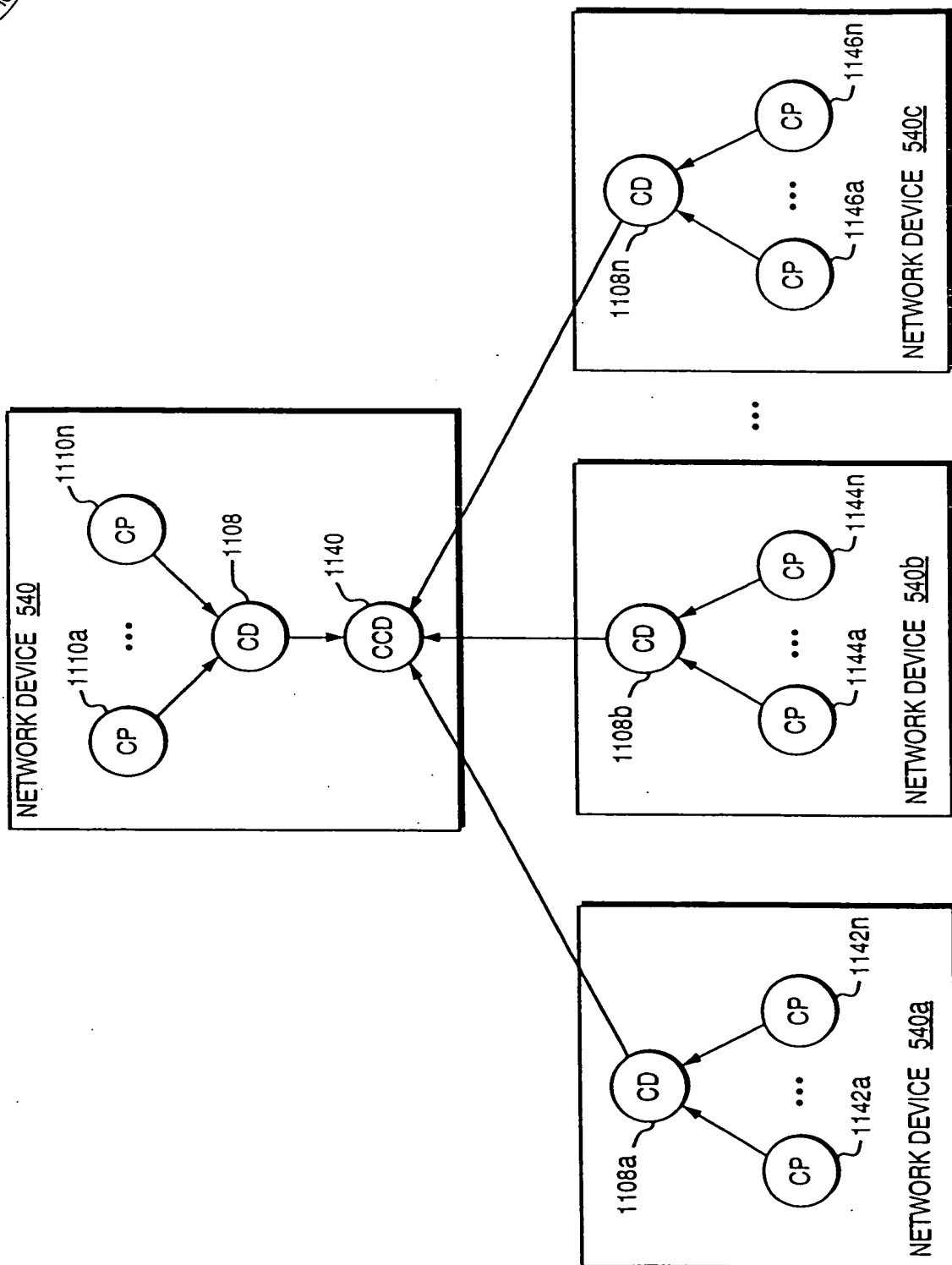


FIG. 83

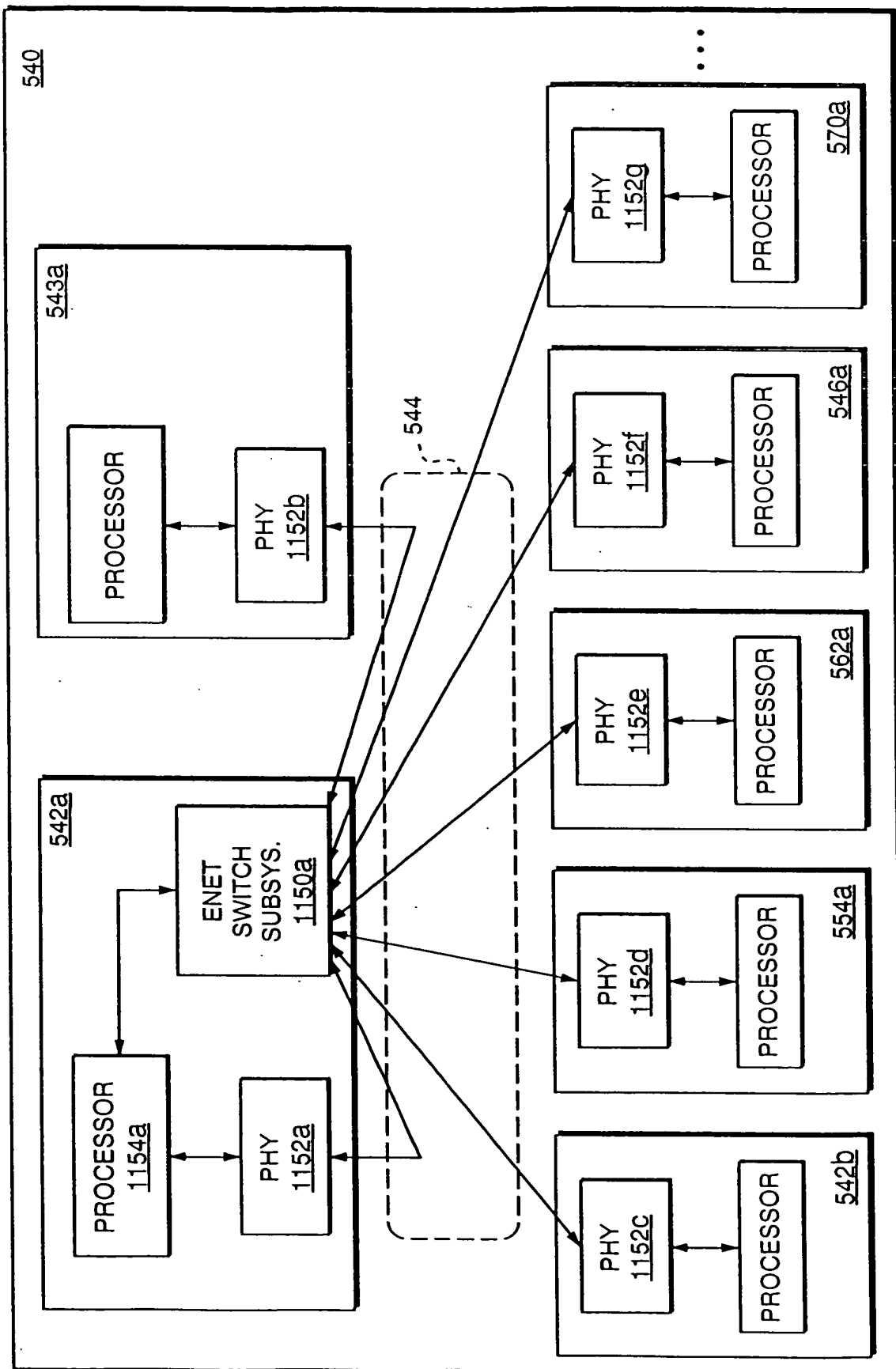


FIG. 84

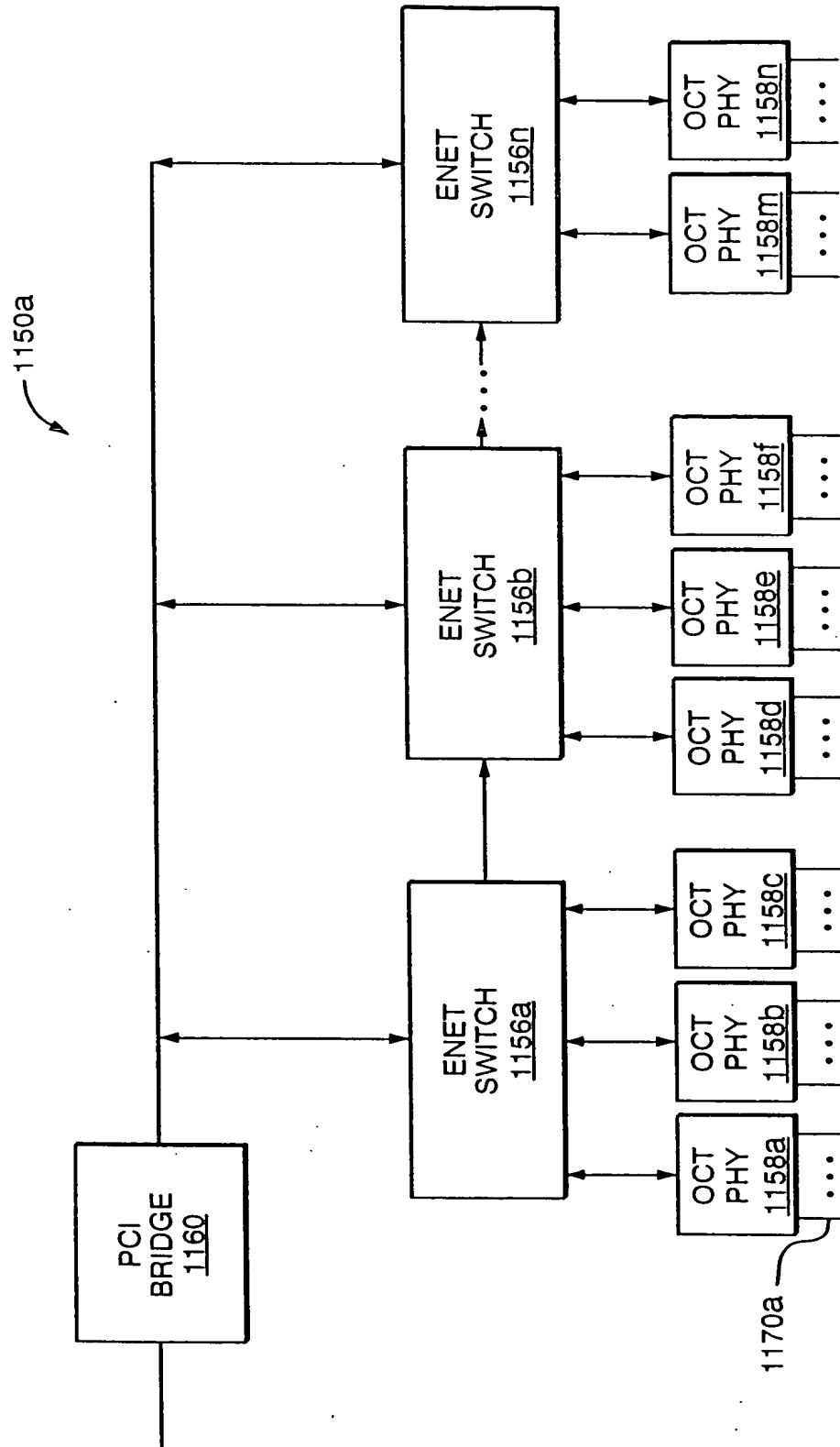


FIG. 85

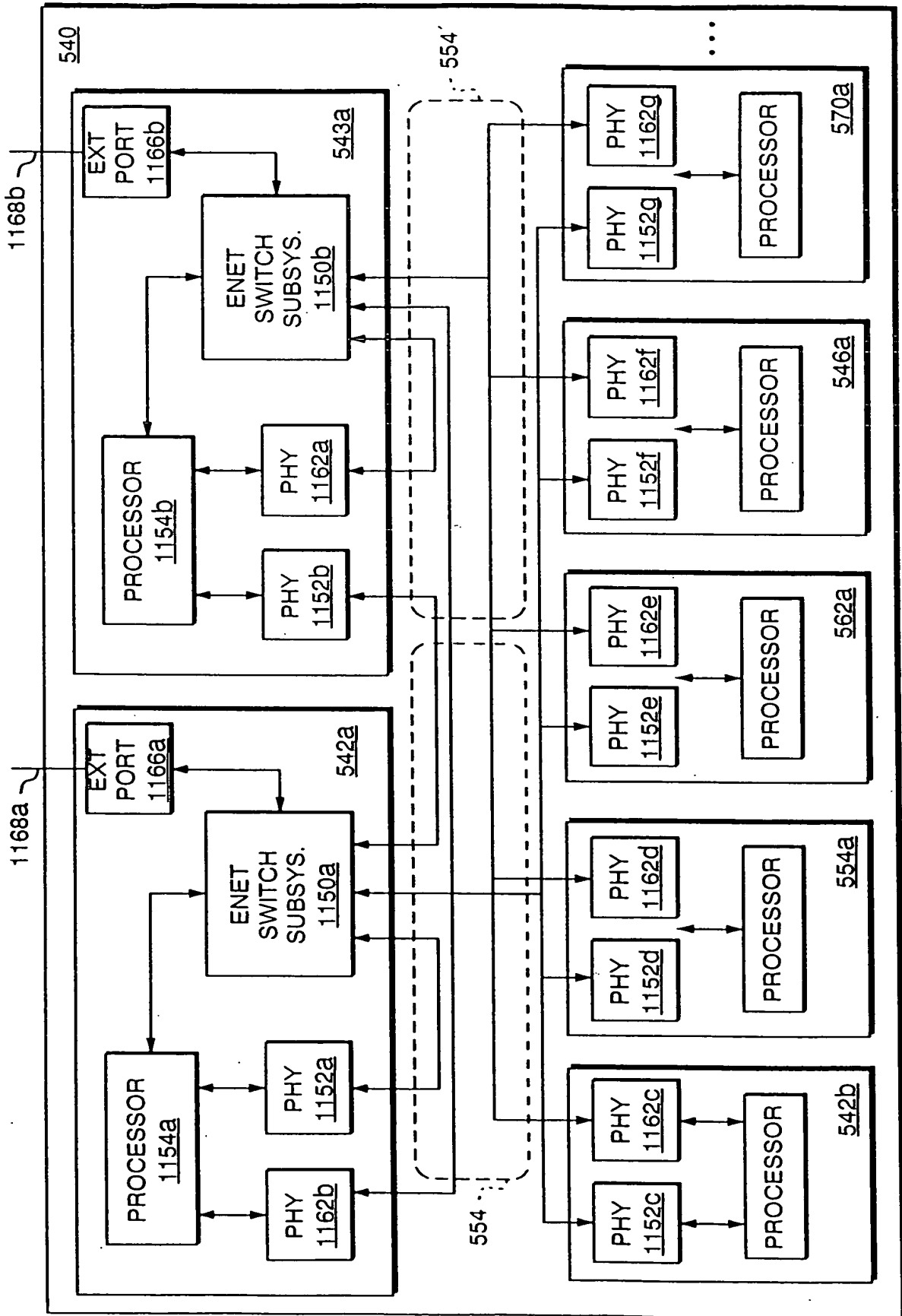


FIG. 86

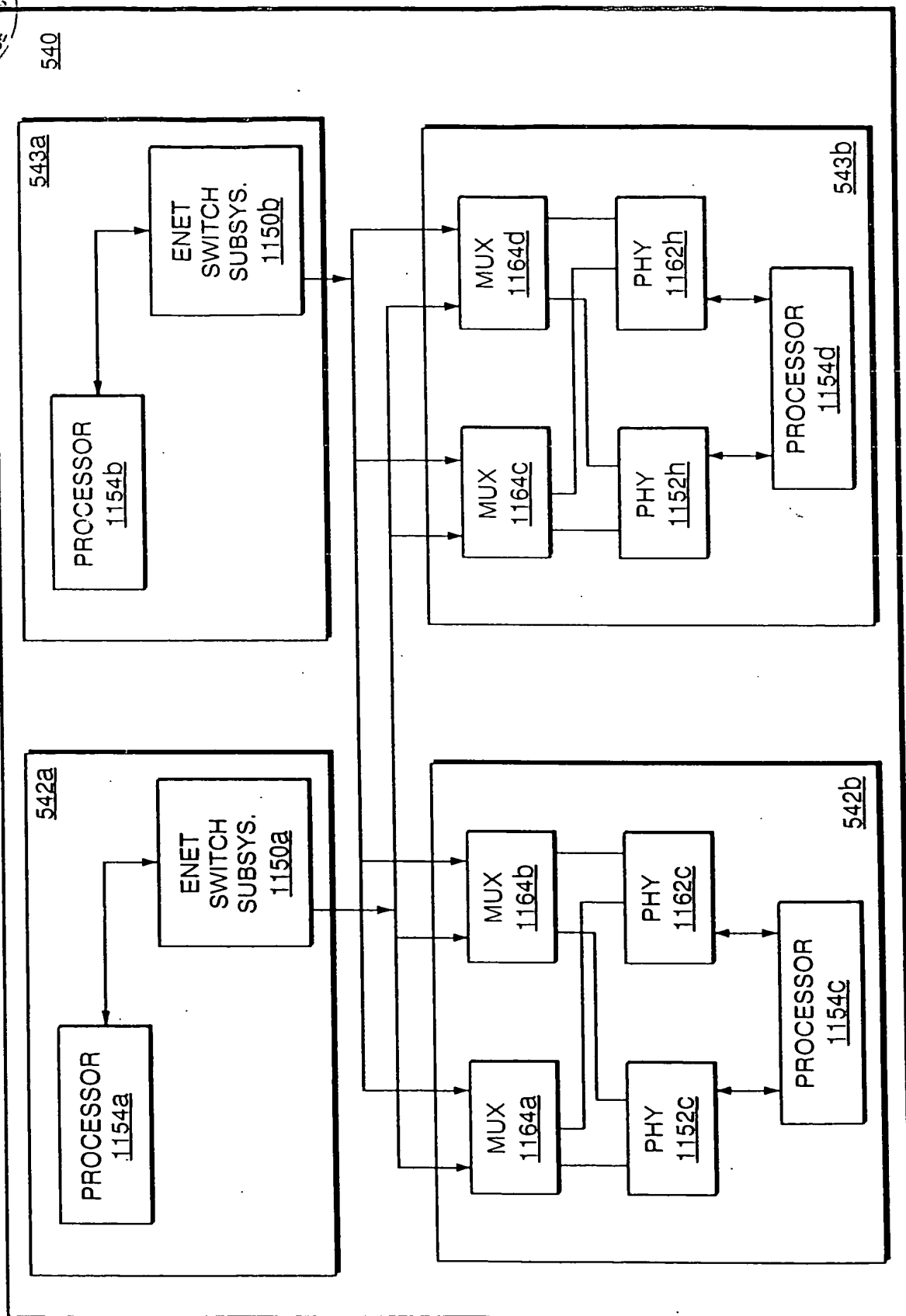


FIG. 87